

1 STATE OF MINNESOTA DISTRICT COURT
2 COUNTY OF RAMSEY SECOND JUDICIAL DISTRICT
3 - - - - -
4 The State of Minnesota,
5 by Hubert H. Humphrey, III,
6 its attorney general,
7 and
8 Blue Cross and Blue Shield
9 of Minnesota,
10 Plaintiffs,
11 vs. File No. C1-94-8565
12 Philip Morris Incorporated, R.J.
13 Reynolds Tobacco Company, Brown
14 & Williamson Tobacco Corporation,
15 B.A.T. Industries P.L.C., Lorillard
16 Tobacco Company, The American
17 Tobacco Company, Liggett Group, Inc.,
18 The Council for Tobacco Research-U.S.A.,
19 Inc., and The Tobacco Institute, Inc.,
20 Defendants.
21 - - - - -

22 TRANSCRIPT OF PROCEEDINGS
23 VOLUME 10, PAGES 1775 - 2017
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25

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CROSS-EXAMINATION - DR. RICHARD HURT

1 P R O C E E D I N G S.
2 THE CLERK: All rise. Ramsey County
3 District Court is now in session, the Honorable
4 Kenneth J. Fitzpatrick now presiding.
5 (Jury enters the courtroom.)
6 THE CLERK: Please be seated.
7 THE COURT: Good morning.
8 (Collective "Good morning.")
9 THE COURT: Counsel.
10 MR. BERNICK: Thank you.
11 Good morning.
12 (Collective "Good morning.")
13 DR. RICHARD D. HURT
14 called as a witness, being previously
15 sworn, was examined and testified as
16 follows:
17 CROSS-EXAMINATION (cont'd)
18 BY MR. BERNICK:
19 Q. Good morning, Dr. Hurt.
20 A. Good morning.
21 Q. I'd like to create a bridge from where we were
22 last Friday. I think we'd left off talking about the
23 success rates of your clinic, and I also want to talk
24 about the success rates of other programs and other
25 ways of quitting for just a moment.

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1 A. Okay.
2 Q. But maybe in order to create that bridge in
3 talking about success rates, let's begin by talking

4 about your clinic in particular and the kinds of
5 patients that come to see you.
6 A. Okay.
7 Q. You --
8 It's called the Nicotine Dependence Center?
9 A. That's correct.
10 Q. And am I correct -- I think you said this under
11 direct examination -- that by and large the people
12 who come to see you are people who are referred by
13 another doctor?
14 A. Eighty-five percent are referred by physician,
15 15 percent are self-referred.
16 Q. Okay. So it would be safe --
17 Is the right term "physician referred," that 85
18 percent?
19 A. That's correct.
20 Q. And is it true that with regard to this
21 population of people who come to see you, that by and
22 large, as compared with smokers generally, that they
23 tend to have -- or I should say people who are
24 thinking of quitting, that these are people who may
25 not really be ready to quit. They may be, in fact,

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1 unwilling to quit.
2 A. The ones we're talking about here?
3 Q. Yes.
4 A. They're -- they're all -- all sizes and shapes
5 and form. I mean after 15,000 or so patients, which
6 is the number we've seen, the spectrum varies from
7 those who don't really want to stop at all, who we
8 would way are pre-contemplaters who never really
9 thought about this before, all the way to those who
10 are in action even when the physician first sees
11 them. So it's a spectrum. It's just not a one or
12 the other.
13 Q. But if we want to compare the group to those
14 people who we are going to talk about in a minute;
15 that is, people who are self-referred, that is, come
16 to a quitting program, your group would have -- tend
17 to have more of the people that are unwilling or not
18 yet ready.
19 A. Oh, that's true. If you're -- if you self-refer
20 yourself, you would be in a later stage of -- of
21 readiness. That's correct.
22 Q. Okay. So let's make another category here and
23 talk about self-referred.

24 And again, would it be fair to say that with
25 respect to your group, you have more of those who

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1 are --
2 What's the best word? Not ready?
3 A. Pre-contemplaters, contemplaters. They --
4 Again, the definition is the pre-contemplater is
5 a person who has not decided to stop smoking at all,
6 they haven't even thought about it before. So when
7 you ask a person about their smoking behavior, you
8 ask that: "Would you like to talk about your

9 smoking? Are you interested in thinking about it?"
10 And the response might be, "Get out of my face. I
11 don't want to hear anything about this. I don't want
12 to talk about it." That's the pre-contemplater.

13 Q. Okay.

14 A. So there would be some of those. And there
15 would be people who are contemplaters, who would be,
16 "Well I've thought about it before, but maybe I'll do
17 it on my birthday which is in August." So it's a
18 long way out. And those that are in preparation
19 would be those who say, "Well I've thought about it
20 some. Maybe I'll do it in the next 30 days." So
21 they're just stages of change that occur.

22 Q. In fact do you have some people who are referred
23 by their physicians, but they just don't really want
24 to be there at all?

25 A. Correct. And some -- some that are referred by
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1 their physicians who are in that stage of readiness
2 never even show up at all. I mean they don't follow
3 through with the appointment.

4 Q. You got some people who are no-shows.

5 A. Yes.

6 Q. Or unwilling.

7 What about in terms of degree of dependence?
8 Would you say that the group of people that you tend
9 to see are more or less dependent than those who are
10 in the self-referred group?

11 A. Well we see both groups. I don't -- I don't
12 mean to imply that we don't see both groups. And
13 I --

14 Those that would be physician-referred might be
15 a little more dependent, but it -- it -- we've never
16 really analyzed it completely in that way. But they
17 might be.

18 Q. Would it be fair to say that the fact that -- of
19 the kind of people that you see; that is, that they
20 are physician-referred, is both one of the strengths
21 of looking at this group of people, but it's also one
22 of the weaknesses because they tend to be a different
23 kind of group from what you see in the self-help or
24 voluntary programs?

25 A. Well we kind of see the whole spectrum, and so
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1 there will be some of those mixed in with that. And
2 in my own practice, in my internal medicine practice,
3 I see people from the community who are not
4 self-selected. They come just to see the -- see the
5 physician. So I have a large number of those that I
6 see in my own practice who are really not on this --
7 this -- this scale at all that I might deal with
8 individually.

9 Q. But if you take a look at the group as a whole,
10 I mean haven't you said yourself that the fact of who
11 these people are and that many of them really are not
12 motivated to proceed is both one of the strengths of
13 the program but also one of the weaknesses, one of

14 the problems you have?
15 A. Well one of the ideas for the -- for the
16 clinician is to try to move that person from
17 pre-contemplation to contemplation to preparation and
18 then to action. That's -- that is equated with
19 success in the way that we deal with -- with smokers.
20 Q. Okay. Now a self-referred program, I think that
21 you said that there was a predecessor program to your
22 own at Mayo?

23 A. No. That's --
24 The predecessor is for the whole -- whole
25 Nicotine Dependence Center. "Self-referred" just
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1 means how they got to see the counselor or got to see
2 us in the Nicotine Center.

3 Q. Before the Nicotine Dependence Center was
4 established, I thought you said that there was an
5 earlier program that began in 1975.

6 A. Right. That was called The Smokers Clinic,
7 correct.

8 Q. That was called The Smokers Clinic?

9 A. Right.

10 Q. And -- and has that been described in your own
11 articles as being a program where people from the
12 community come in --

13 It's a self-referral program?

14 A. Well I -- I wouldn't put it the way you have it.
15 That's not accurate. The Smokers Clinic was the only
16 program we had from 1975 through 1988, and it was --
17 people were referred to it by their physicians
18 because people within the medical community knew
19 about the program. So it wasn't only self-referred.

20 Q. Okay. So both self-referred and
21 physician-referred?

22 A. Oh, yeah. Oh, yeah.

23 Q. Okay. Fine.

24 A. Sure, yeah. But it was only run three times a
25 year, so it really only applied to people from that

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1 general vicinity, Rochester and Olmstead County --

2 Q. Okay.

3 A. -- and the surrounding areas.

4 Q. Okay. And then would it also be fair to say
5 that there are a bunch of people out there who never
6 really attend any kind of clinic, --

7 A. Correct.

8 Q. -- but we call -- what's the -- self-quitters
9 or --

10 A. They have self-help sort --

11 Q. Self-help?

12 A. -- of programs. Right.

13 Q. Now I think you said on direct examination that
14 the success rate that you see within one year, that
15 if you go for a year, follow people for a year after
16 they start through the program is about 22 percent?

17 A. If -- if --

18 Q. All --

19 A. If they've received the basic service, which is
20 the consultation plus the basic follow-up.
21 Q. Okay. Do you have data that says what's
22 happened to those people over a longer period of
23 time; that is, that --

24 It's true, is it not -- let me just ask you this
25 as a background question -- if you follow people for

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1 a year, you can see how many of them that started
2 with the program in fact have quit, but that in
3 succeeding periods of time some of those same people
4 will in fact later quit successfully on their own?

5 A. Or relapse.

6 Q. Or go through another program.

7 A. Or relapse. I mean there is a relapse rate
8 after a year. The relapse rate usually occurs within
9 the first couple of weeks, and then after that it
10 goes down. But at the end of one year, that's not
11 completely stable either way.

12 Q. Either way.

13 A. Either way.

14 Q. Okay.

15 A. People tend to continue to try to stop because
16 they have other -- other contacts, other
17 interventions, but they also will tend to relapse.
18 We've had people who relapse after being abstinent
19 for many years.

20 Q. Fine. Have you done a study to determine what
21 the rate is over a longer period of time for your
22 program; that is, the success rate over a longer
23 period of time?

24 A. No, we really haven't. We did in The Smokers
25 Clinic, but that was a retrospective look.

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1 Q. Okay. Let's talk about The Smokers Clinic.

2 As I understand it, in The Smokers Clinic after
3 one year it was basically the same range?

4 A. That's right.

5 Q. Is it also true, though, that as a result of
6 spontaneous quitting or being part of another program
7 elsewhere, that this number continued to rise as the
8 years passed from The Smokers Clinic?

9 A. Yeah. But you -- I think that's where we left
10 off on Friday. You have to be really careful with
11 that because the denominator, which is the number of
12 people that entered the program at the beginning, and
13 then you follow those across time, that number became
14 less because we lost people to follow-up, we couldn't
15 follow them up any more. So in an intent-to-treat
16 analysis you would count all of the people that
17 entered in the denominator all the way across. So
18 because we couldn't follow them all the way across,
19 it looked like there was a cumulative increase in the
20 smoking cessation rate over time. And that's a
21 probably --

22 Q. But that's in fact -- that's in fact what was
23 reported --

24 A. Right.
25 Q. -- when the article that was written.
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1 A. Yeah.
2 Q. There was in fact an article that was -- was
3 written by you talking about the -- about the success
4 rate in your program, I think it's in volume two, tab
5 83, if you could take a look in your book.
6 MR. CIRESI: Exhibit number, please.
7 MR. BERNICK: It is -- it does not have an
8 exhibit number. It was previously designated, but
9 does not have an exhibit number.
10 MR. CIRESI: May we have the title?
11 MR. BERNICK: Yeah. "Long-term Follow-up
12 of Persons Attending a Community-Based Smoking-
13 Cessation Program."
14 MR. CIRESI: That's Exhibit No. 25008.
15 MR. BERNICK: Okay. That's your exhibit
16 number?
17 THE WITNESS: That's correct.
18 MR. BERNICK: The state's exhibit number?
19 MR. CIRESI: That's correct.
20 MR. BERNICK: Okay.
21 BY MR. BERNICK:
22 Q. Is this an article that you wrote, Dr. Hurt?
23 A. I along with the other people listed, yes.
24 Q. Yeah, but you're the lead author; are you not?
25 A. Yeah. But that doesn't mean I wrote the whole
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1 thing.
2 Q. Okay.
3 A. When you have authors, when they're included,
4 everybody contributes, so it's not mine alone at all.
5 Q. That's fine.
6 MR. BERNICK: We would offer this, Your
7 Honor.
8 MR. CIRESI: No objection under 803(18),
9 Your Honor.
10 THE COURT: Court will receive 25008.
11 BY MR. BERNICK:
12 Q. This is the first page that we see here;
13 correct?
14 A. Yes, it is.
15 Q. If we zoom in, I've highlighted your name, and
16 we then go forward -- and I guest chart that I wanted
17 to focus on is the easiest chart to read. This
18 appears over on page 5686. Is that what we see at
19 5686?
20 A. You mean 686?
21 Q. I'm sorry, 686, yeah, right.
22 A. Uh-huh.
23 Q. And does that reflect that you started out at 22
24 percent after one year -- that would be right there.
25 A. Correct.
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- 1 Q. After seven years you're at 47 percent, and then
2 after 10 years of follow-up the success rate has
3 climbed to 62 percent.
4 A. That's -- that's what it reports, yes.
5 Q. Okay.
6 A. But again, you have to look at the numbers
7 underneath in parentheses. That's the denominator
8 effect. And so as you go across time, we have fewer
9 and fewer people that we're able to follow --
10 Q. I understand.
11 A. Because over time we don't -- aren't able to
12 follow them all.
13 Q. Right. You have -- you have --
14 In any study that's a retrospective study, as
15 time goes on, the ability to contact people and get
16 information from them deteriorates.
17 A. Correct.
18 Q. Okay. So you just have fewer people to work
19 with.
20 A. That's one of the flaws of retrospective studies
21 as opposed to prospective studies.
22 Q. And you concluded, in discussing the findings of
23 the study, that permanent cessation continues --
24 A. Where are you? What page are you on?
25 Q. I'm sorry. This is page 688. And I kind of cut

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- 1 it off at the wrong place when I bracketed it here.
2 It says, "Although the one-year smoking cessation
3 rate is important for the evaluation of a program,
4 this study showed that further changes in smoking
5 behavior occurred after one year. Permanent
6 cessation of smoking continued to occur at least
7 through six years of followup and occurred at a
8 higher rate than the one-year cessation rate after
9 physician's advice alone. As such, the cumulative
10 smoking-cessation rate continued to increase beyond
11 that expected as a result of spontaneous cessation of
12 smoking."
13 What's spontaneous cessation of smoking?
14 A. Well we don't know exactly the reason why they
15 stop and we didn't have information to be able to
16 tell the reader why they stopped, so we termed that
17 spontaneous.
18 Q. Okay.
19 A. It may have been --
20 Q. That's not part of the program, it's some --
21 A. Yeah. The problem is trying to take credit for
22 the program for these things that occur later on.
23 It's just -- you can't do that. So there is a
24 spontaneous rate. We don't know exactly why those
25 people may have stopped. They may have had a heart

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- 1 attack and stopped, it's hard to know. But there was
2 a cessation rate later on, and it was in the
3 two-and-a-half- to six-percent range or eight -- 8.8
4 was the highest one, that's on Table 5. So it's

5 small. And that's when we said in the -- in that
6 part of the discussion it's less than -- or actually
7 more than what would happen with physician advice
8 alone.
9 Q. And that table that you talk about there says 22
10 percent quit after the first year, and then in each
11 succeeding year you get an additional percentage that
12 you're adding on.
13 A. That's correct.
14 Q. That then gives you the total that appears here
15 on the back.
16 A. That's correct. That's where the 62 percent
17 comes from.
18 Q. Okay. Now with respect to programs where --
19 Well let's go down to the bottom one here.
20 Have -- have success rates --
21 I think you gave a success rate for people who
22 get on their own, a one-year success rate of about
23 five percent?
24 A. It's in -- it's in the five to seven percent
25 range. Depends on which study you read.

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1 Q. Okay.
2 A. It's relatively small.
3 Q. But again, if we wanted to go beyond just that
4 one year and talk about the success of people who
5 quit on their own after one year, isn't it true that
6 again you'd get numbers -- I think Dr. Fiore's
7 numbers are in the range of approximately 40 percent
8 or more. There's a range that gets reported. But
9 you can get success rates in self-help studies of
10 upwards of 40 percent after more than one year. In
11 fact, I think that's a 10-year figure, correct?
12 A. I'd have to see what Dr. Fiore said. I don't
13 recall that number specifically.
14 MR. BERNICK: This is not a disclosed
15 document, this is a study by Dr. Fiore. We'll not
16 offer it in evidence.
17 MR. CIRESI: It's not a disclosed document?
18 MR. BERNICK: No, that's correct.
19 MR. CIRESI: Do you have a copy, counsel?
20 MR. BERNICK: I've got my copy.
21 MR. CIRESI: Well I'll take that.
22 Thank you.
23 MR. BERNICK: I'm going to need to display
24 it here in a minute, but --
25 BY MR. BERNICK:

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1 Q. See that Dr. Fiore also has studied the issue of
2 quit rates, actually comparing quit rates between
3 programs, formal programs and self-help programs?
4 MR. CIRESI: Excuse me. Your Honor, again,
5 there's not an exhibit offered, there's been no
6 foundation laid, and he's testifying from the
7 exhibit.
8 MR. BERNICK: I'm going to ask him
9 questions.

10 MR. CIRESI: I object to the form -- I
11 object to the form of the question.
12 THE COURT: Sustained.
13 MR. BERNICK: Okay. I'll repute the
14 question.
15 BY MR. BERNICK:
16 Q. Dr. Hurt, people like Dr. Fiore have studied
17 this group; correct? This focusses on --
18 A. I haven't read this in -- I don't know when the
19 last time I read it. I read it before. The title is
20 "Methods Used to Quit Smoking in The United States:
21 Do Cessation Programs Help." If I'm really going to
22 get into very much detail for what your questions
23 are, I'm going to need to read this --
24 Q. Okay.
25 A. -- in order to refresh my memory. It's been --
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1 I don't know when I last read this. I read it
2 before, but it's probably been months or maybe even
3 longer.
4 Q. Well let me ask you a general question.
5 A. Because this was written in 1990.
6 Q. Sure.
7 A. It's not one that I refer back to every day.
8 Q. Is Dr. Fiore one of the other people that does
9 research in this area?
10 A. Dr. Fiore does a lot of research in nicotine,
11 yes.
12 Q. And based again on your own knowledge, have you
13 studied, have you reviewed the articles that deal --
14 You testified on direct examination to this
15 number here. That's a one-year number.
16 A. Uh-huh.
17 Q. Have you reviewed the articles in the literature
18 that deal with what the success rate is of
19 self-quitters over longer periods of time? Have you
20 done that?
21 A. I have, but I couldn't -- you know, I would have
22 to go back and look at articles like this to give you
23 any numbers.
24 Q. Okay. So right now --
25 A. There is a rate and it depends upon the study,
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1 and this is one study, and there are a lot of studies
2 out there. Ours is one study, but I said earlier, it
3 has its own little flaws because it was a
4 retrospective study.
5 Q. Okay. But at this point in time you're not able
6 to tell us what the quit rate is for people who quit
7 on their own?
8 MR. CIRESI: Objection. It's a
9 misstatement.
10 MR. BERNICK: I'm just asking.
11 MR. CIRESI: Objection. Misstatement of
12 the evidence.
13 THE COURT: Do you understand the question?
14 THE WITNESS: I'm not sure.

15 MR. BERNICK: I'll repeat it.
16 THE COURT: Rephrase the question, please.
17 MR. BERNICK: Sure.
18 BY MR. BERNICK:
19 Q. At this point, Dr. Hurt, are you able to tell us
20 the rate at which self-help quitters, people that
21 quit on their own, the rate at which they succeed
22 beyond one year of follow-up? Can you tell us that?
23 MR. CIRESI: Objection, no foundation. It
24 would depend upon the study.
25 MR. BERNICK: I just laid the foundation,
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1 Your Honor.
2 THE COURT: You may answer that.
3 A. It would depend upon the study. And there is a
4 rate and there are published articles like this one
5 that would say that it's in -- in a five or so
6 percent range on --
7 These people are repeatedly trying to stop. If
8 they haven't stopped the first time that they tried
9 to do that, they will -- they will try again at some
10 time in the future. Whether or not that person in
11 year one tries again in year two, three or four or
12 five, is dependent upon that individual. So there is
13 a -- a -- a stop rate in the future, and it's
14 probably still in the single-digit numbers as far as
15 success rates for people who have failed before. But
16 it depends how long you follow them. If you follow
17 them long enough, you know, if you follow them long
18 enough over time --
19 Q. Yes.
20 A. -- then there will be another stop attempt in
21 the future or they will have a serious medical
22 consequence or they will die. I mean so -- you have
23 to --
24 What length of time is important as far as that
25 statement is concerned.

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1 Q. Can you give me success rate, the successful
2 quit rate for self-help quitters for any year beyond
3 the first year; that is, after five years or ten
4 years?
5 A. It won't --
6 It will be in the same single-digit five to
7 seven percent range --
8 Q. Per year?
9 A. -- that it was in the first year. But then
10 you're going to be recycling people through all over
11 again. Those are still the 95 percent that didn't
12 stop that tried to stop at one year, at some point in
13 the future they will try again.
14 Q. Okay. And if we -- if we were to follow --
15 A. And so if it's focussing in year three, then
16 that same rate would be probably operational at the
17 five to seven percent range.
18 Q. Well --
19 A. So I don't -- so I don't know where the 40

20 percent comes from. That's -- I'd have to read this
21 article to see why he said that.
22 Q. Let me just make sure I understand what you're
23 saying. In each succeeding year these people may
24 decide to quit again.
25 A. The 95 percent that did not.

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1 Q. The 95 percent. In other words, five percent
2 successfully --
3 If we start out with a group of a hundred
4 people, first year, 95 percent try to quit, fail to
5 do so, five percent succeed. We then follow that 95.
6 What you're saying is that in each succeeding year we
7 would get, again, five percent successful, 95 percent
8 not successful?
9 A. It would be in that range. But I'd have to
10 again look at the study we're talking about. And it
11 depends on what happens to them. You know, probably
12 one of the most effective forms of smoking
13 intervention is the heart attack, and only half of
14 those stop smoking. So it depends on what happens to
15 the people as time goes on. You can't separate them
16 in time.

17 MR. BERNICK: Your Honor, this is -- this
18 is not responsive. I think I'm asking fairly simple
19 questions.

20 THE COURT: No, I think that last answer
21 was responsive to the question.

22 MR. BERNICK: Well then maybe I'll rephrase
23 my question, Dr. Hurt.

24 THE COURT: Counsel, it's been ruled on as
25 responsive.

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1 MR. BERNICK: Okay. Well then I'll ask a
2 different question.

3 BY MR. BERNICK:

4 Q. I'm really focused on the total cumulative
5 success rate of people who quit on their own. Can
6 you tell me the total cumulative success rate of
7 people who quit on their own in the years past year
8 one?

9 A. It would be in that range, the five or -- five
10 or seven percent range on an annual basis.

11 Q. I said --

12 A. But the --

13 MR. CIRESI: Can he finish?

14 Q. -- total --

15 MR. CIRESI: Excuse me. Your Honor, he
16 interrupted.

17 THE COURT: Yes. Please allow him to
18 answer the question.

19 MR. BERNICK: I'm sorry. Sure.

20 A. So it would in the five to seven percent range
21 in year two just like your drawing had started out,
22 but it depends on the population, it depends on the
23 people that we're talking about. And it's -- it's
24 not simple, it's not simple at all because people are

25 different, their circumstances are different, their
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1 medical complications are different too.
2 Q. What do the researchers conclude about the --
3 Your program is, I think you said your facility
4 is unique? "Unique facility," I think those were
5 your words?
6 A. I think it is only because of the breadth of the
7 interventions we provide. We're not any better than
8 anybody else at it, we just have more interventions
9 to provide, more services for the patient. Not
10 anybody else that I know has outpatient programs,
11 inpatient programs to the extent that we do.
12 Q. By and large, isn't it true that the research
13 shows that there may be unique programs that have
14 very high success rates, but that by and large people
15 who use self-help tend to be more successful in
16 quitting than people who go to programs? Isn't that
17 what the research shows?
18 A. I'd have to see what research you're talking
19 about. If you've got something in mind, we can look
20 at it. But I wouldn't make a blanket statement that
21 research shows, and there's a lot of research that's
22 going on.
23 Q. Well --
24 A. So if you got something we can look at, I'd be
25 glad to look at it.

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1 Q. Before you came in to testify, you talked
2 about --
3 You came to testify about your research
4 program -- your -- your Nicotine Dependence Center
5 program; correct?
6 A. No. I came to testify that nicotine is
7 addicting and the other things we talked about
8 earlier. I didn't come to talk about our program
9 necessarily, it just happens to be that's what I do
10 for a living.
11 Q. Well I thought you testified your program -- on
12 direct examination and the program and the procedures
13 that you followed; didn't you?
14 A. Say that again.
15 Q. On direct examination, didn't you come to
16 testify about the program and the procedures that you
17 follow?
18 A. I think my expert report really outlines
19 what -- what my opinions were as far as the reasons I
20 came to testify. Had to do with nicotine addiction,
21 manipulation of nicotine. Those -- those sorts of
22 things are the --
23 My program is part of what I do for every day --
24 my everyday life.
25 Q. Did you or did you not testify on direct

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1 examination to what your program did?
2 A. I did.
3 Q. Okay.
4 A. I was asked the question. I answered the
5 question.
6 Q. And before you came to testify to that, did you
7 take a look at the research to see whether the
8 procedures that you outlined to the jury were more or
9 less effective in producing quitting than self-help?
10 Did you do that?
11 A. We looked at all of the literature that was
12 available at the time that we started the program
13 back in '88 as far as other types of programs that
14 were available. Self-help is one of the things that
15 we looked at, yes.
16 Q. So you reviewed that literature before you came
17 in to talk to this jury?
18 A. I reviewed that literature before I started --
19 we started the program back in '88. That's been ten
20 years ago.
21 Q. In preparation for your testimony, did you take
22 a look at the research on whether self-help was more
23 or less effective than your program?
24 A. Not in preparation for this. This is -- you
25 know, as I said, this is the foundation of our

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1 program itself, was higher levels of interventions
2 produce better success rates. Higher level of
3 interventions above -- above self-help would be
4 expected to produce better success rates.
5 Q. Well what does the research then show --
6 The research where the researcher compares
7 between self-help and cessation programs, which is
8 the more effective? What does that research show?
9 A. Self-help versus --
10 Q. Cessation programs.
11 A. It depends on the cessation program. And -- and
12 for ours, it's several times higher than it is for --
13 even for physician intervention. So if you have
14 levels of intervention, self-help would be one,
15 physician intervention would be the next level up,
16 counselor intervention would be the next level up,
17 and then so on. So that's the basis for which we
18 have looked at our program over the years.
19 Q. What about Dr. Fiore's research, are you
20 familiar with that research on that subject?
21 A. I have to see which articles --
22 He's written a lot of articles, so if you've got
23 an article you'd like me to review, I'd be glad to do
24 that.
25 Q. Well the one -- the one in front of you --

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1 A. And he -- his group is very prolific. They
2 publish like --
3 (Discussion off the record.)
4 Q. It's the article in front of you, but that's all
5 right, we'll -- we'll come back to that in a minute.

6 With regard to the people who are not the
7 quitters, as people who continue to smoke who either
8 have attended or not attended one of these programs,
9 let me ask a couple questions about that.

10 You testified on direct examination, and I think
11 you referred to a document that said that most
12 people, when asked, say they would like to quit. And
13 the numbers are very high, 80, 85 percent I think you
14 had in the document; correct?

15 A. The numbers are very high, yes.

16 Q. Isn't it true that when people come to talk to a
17 doctor about their smoking and the doctor tells them
18 that they should stop, that very frequently --
19 what -- what -- the information that you're reciting
20 there picks up on the patient's response, the patient
21 says well I'd like to quit but I can't. Isn't that
22 the source of the information, the source of the 80
23 or 85 a percent number?

24 A. Well the 80 to 85 percent number comes from
25 surveys that have been done like the surveys done in
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1 the internal documents as well as surveys of -- of
2 others. I'm not -- it doesn't only come from the
3 physician interaction. Very few people come in to
4 see the physicians saying I want to come in to stop
5 smoking. That's not exactly the thing that most of
6 them come in for. Most of them come in for other
7 reasons, and it's incident to that intervention -- or
8 that -- that occurrence that smoking may come up.

9 And we spend a lot of effort trying to teach our
10 physicians to at least ask about it, because unless
11 they ask about it, then the smoker may or may not
12 even want to talk about it. So it doesn't
13 necessarily come from that sort of information.

14 It could, but there's surveys that have been
15 done asking people that same question.

16 Q. Isn't it true that the reliability of those
17 numbers has been questioned by people like Dr.
18 Koslowski because of the patient's incentive to say
19 yes, I would like to, but I can't?

20 A. I don't know what --

21 You obviously have a study you're referring to,
22 and if you'd like, I'd be glad to look at it.

23 Lynn Koslowski writes lots of articles, and so
24 for you to say that makes it -- I can't answer that
25 because I don't know which article you're talking

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1 about. He also talks about ventilation, low tar/low
2 nicotine cigarettes, people being unaware of the
3 ventilation holes in the cigarettes, covering up
4 ventilation. He -- he's written a lot of things. So
5 he's a -- he's a very, very prolific writer. So I
6 couldn't tell you that. Maybe you can show me.

7 MR. BERNICK: This is GK -- GK112. Sorry,
8 Your Honor, this is not in the notebook that we've
9 prepared, but it's been disclosed.

10 Let me switch. I'm going to direct your

11 attention to that highlighted page.
12 BY MR. BERNICK:
13 Q. Dr. Kozlowski is a -- a -- an established
14 researcher and writer in the area of smoking
15 behavior; is he not?
16 A. He is, yeah.
17 Q. Okay. And this article that's before you
18 appears in The Lancet, which is a peer-reviewed
19 journal and a prestigious one?
20 A. It is.
21 Q. Okay. And Dr. Koslowski in this article is
22 writing in fact about smoking behavior; is he not?
23 A. It says "What Researchers Make of What
24 Cigarettes Smoking Say: Filtering Smokers' Hot Air."
25 MR. BERNICK: Okay. We would offer it,
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1 Your Honor, as a learned treatise.
2 MR. CIRESI: No foundation yet, Your Honor.
3 He hasn't asked whether he's relied on it.
4 MR. BERNICK: I don't believe, Your Honor,
5 the rule requires that he rely on it. The rule
6 requires that it be established to be a reliable
7 authority. Otherwise, the expert would be able to
8 define what it is that he can be crossed on.
9 THE COURT: Doctor, have you read the
10 article?
11 THE WITNESS: I have not.
12 THE COURT: Well I think he has to have the
13 opportunity to read it --
14 MR. BERNICK: Oh, surely.
15 THE COURT: -- so we know if it's reliable.
16 MR. BERNICK: Sure, go ahead. Why don't
17 you take a look at it.
18 THE WITNESS: Read the whole article?
19 MR. BERNICK: It's one page long.
20 THE WITNESS: Okay, be glad to.
21 Okay.
22 Q. Dr. Koslowski has written an article; correct?
23 A. Correct.
24 Q. Published in The Lancet; correct?
25 A. 1980.

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1 Q. 1980 in The Lancet, March 29 of 1980.
2 A. Right.
3 Q. Okay. The Lancet is a peer-reviewed and
4 authoritative journal in the field of medicine?
5 A. It is, yes. Uh-huh.
6 Q. And Dr. Koslowski is a recognized authority in
7 the field of addiction; correct?
8 A. Particularly with regard to smoking, yes.
9 Q. Okay.
10 MR. BERNICK: We would offer this article
11 as a learned treatise, Your Honor.
12 MR. CIRESI: Under 803(18)?
13 THE COURT: Yes.
14 MR. CIRESI: We have no objection.
15 THE COURT: Court will receive GK112.

16 BY MR. BERNICK:

17 Q. Title of the article is "What Researchers Make
18 of What Cigarette Smokers Say: Filters Smokers' Hot
19 Air." Correct?

20 A. That's what it says.

21 Q. And the article actually begins by talking and
22 pointing out the fact that "given the widespread
23 harassment of cigarette smokers and the evidence that
24 smoking actually is dangerous to health, it is not
25 surprising that smokers sometimes lie about their

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1 smoking. Lying about smoking habits has become so
2 commonplace in smoking-treatment clinics that many
3 researchers have used assays for the biological
4 markers of smoking to confirm their patients' claims
5 to have stopped smoking."

6 The article then goes on to discuss the
7 literature --

8 And before it does that, do you see where it
9 says, "Since researchers have readily challenged the
10 validity of the verbal reports of smokers on the
11 above issues, it is surprising how rarely they have
12 second-guessed the claim of -- claims of smokers that
13 they want to or have tried to stop smoking." Do you
14 see that?

15 A. Uh-huh.

16 Q. "How better for a smoker to avoid the pesterings
17 of a physician or other interviewer than to say,
18 whether believing it or not, that he wants to and has
19 even tried to give up cigarettes? And, if the
20 questioner asks if the attempts to stop have been
21 serious, who would want to confess to a half-hearted
22 effort? Yet, answers to questions on wanting to stop
23 and trying to stop have regularly been used
24 uncritically -- as if the smokers must -- now must be
25 telling the truth."

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1 He then goes ahead and reviews McKennell.
2 McKennell is a researcher that deals -- dealt with
3 smoking dis -- what's called smoking dissonance;
4 correct?

5 A. I don't recall his name at all.

6 Q. Well you showed the jury in your direct
7 examination a study called project LIBRA -- that's
8 Plaintiffs' Exhibit 11102 -- in talking about how
9 smokers deny the risks of smoking. Do you recall
10 that?

11 A. I recall that, yes.

12 Q. Isn't it a fact that the LIBRA study was based
13 upon McKennell's work?

14 A. I'm -- I didn't know that until right now. If
15 that's correct, that's correct.

16 Q. Have you taken a look --

17 When you talked about the scientific literature,
18 you talked about the fact of smokers' denial, have
19 you familiarized yourself, are you an expert in the
20 area of smoking cognitive dissonance; that is, have

21 you taken a look at the studies that have been done?
22 A. I've looked at some of those studies, yes.
23 Q. Isn't the fact that the originator, one of the
24 originators of this theory wrote about this theory as
25 early as 1957 in the published literature, Dr.

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1 Ketsinger?
2 A. Could be. The cognitive dissonance theory has
3 been out there for a long time, and in the current
4 mode of talking about that, that is not something
5 that is generally acceptable within -- within this
6 field. We don't -- we don't do that. We talk about
7 denial, rationalization, which is basically the same
8 thing that -- that dissonance was back, you know, 40
9 years ago.
10 Q. So cognitive dissonance is no longer what?
11 A. Well, if I were to call upon a psychologist at
12 the Mayo Clinic and ask him "Do you operationalize
13 cognitive dissonance in your everyday activity as a
14 psychologist?" They would say, "That's really old.
15 We don't do that that much any more."
16 Q. No longer the accepted theory?
17 A. It's -- it's no longer operationalized when you
18 take care of patients.
19 The terms have changed over time, and so
20 cognitive dissonance is, in many respects,
21 rationalization when you're dealing with an addictive
22 disorder and denial.
23 Q. Is it dissonance with two esses or one?
24 A. Two.
25 Q. So the LIBRA study that you cited to the jury,

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1 Plaintiffs' Exhibit 11102 --
2 A. Well LIBRA was the code name. It sounds like a
3 country, you know, so I --
4 Q. But that was a cognitive dissonance study;
5 wasn't it?
6 A. It -- I think you're right.
7 Q. So a -- a researcher today --
8 A. And I -- I don't know if that study was even
9 published. Maybe it was published in the scientific
10 literature. Maybe you know. It was a B.A.T study, I
11 think, from your company, so I don't know if it was
12 published in the scientific literature or not as the
13 project LIBRA. Was it?
14 Do you know whether project LIBRA in that B.A.T
15 study that you said to the jury, said anything
16 different from what McKennell said in the published
17 literature at the same time?
18 A. I'd have to -- I'd have to go back and compare
19 the two.
20 Q. Well the literature review takes place, Dr.
21 Koslowski goes through studies like McKennell's and
22 then comes back to conclude, "We have described some
23 inconsistencies in the application of critical acumen
24 to the verbal reports of smokers and have encouraged
25 caution in what is made of what smokers say about

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1 their wish to give up smoking and their attempts to
2 do so. Misleading self-reports (whether self-serving
3 or even self-castigating) are not limited to smokers;
4 people who are overweight or who are guilty of any of
5 the presumably behaviorally correctable sins of our
6 age are likely dissemblers. Whatever may cause these
7 lapses in discernment on the part of the
8 investigators, we know of no reliable cure and have
9 ourselves lapsed on exactly those same rules." Do
10 you see that statement there?

11 A. Same issues, yeah.

12 Q. And Dr. Koslowski is not the only one who has
13 spoken out and said let's be cautious when we take
14 those figures of how many people wish to stop. He's
15 not the only one who said these words; is he?

16 A. Well I think that implicit in this article is
17 also the self-report of abstinence, and that's the
18 other side of this, biochemical confirmation of
19 abstinence.

20 And there is an old article, this is written in
21 1980. There is a whole literature about biochemical
22 validation of self-report that has evolved since
23 then, and more recent articles would say self-report
24 of abstinence is really a very good way of doing it.
25 We realize that some people will not always be able

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1 to tell us exactly how much they're smoking or even
2 if they are smoking. They may be embarrassed. But
3 as a rule, the self-report is a very reliable measure
4 even for abstinence. And that's been shown in two or
5 three or actually several different reviews that are,
6 you know, much more recent than this one. So --

7 Q. None of which you've brought to this court
8 though.

9 A. Pardon?

10 Q. None of which you've brought to this court.

11 MR. CIRESI: Objection, Your Honor. It's
12 irrelevant, argumentative.

13 THE COURT: It's argumentative, counsel.

14 BY MR. BERNICK:

15 Q. Isn't it a fact that when we take a look, Dr.
16 Hurt, at the population of people who have not quit,
17 that you yourself are not able to define any set of
18 smokers who you believe are fundamentally not able to
19 quit? Isn't that true?

20 A. I really don't know. I don't follow the
21 question at all.

22 Q. Well we've talked about all the people who have
23 successfully quit. We've talked a little bit about
24 the people who say they would like to quit but have
25 not. That's what the subject of Dr. Koslowski's

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1 article is.

2 Isn't it a fact that even based upon all the
3 experience that you have, you are not prepared to say
4 today that there is a group of smokers who can't
5 quit? Isn't that true?

6 A. If I had a patient in front of me that has tried
7 to stop smoking multiple times before, would I give
8 up on him? No, I wouldn't do that.

9 Q. And more than that, you would further not say
10 that there is a group of smokers that can't stop;
11 true?

12 A. I think I just said what I would say, and
13 that --

14 There's no way to identify prospectively in a
15 person in front of you who may have tried dozens of
16 times before to stop, whether or not they're going to
17 be able to stop on this attempt. Maybe we have
18 better treatments now, maybe they've had other
19 influences that go into it. So I -- trying
20 to identify --

21 If I have a patient in front of me, it's a
22 patient, you know, and I try to do the best I can in
23 taking care of that patient. If that patient fell
24 into a group that I kind of a priori said, well
25 there's no point in worrying about you, so I won't

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1 bother talking about your smoking, that would be -- I
2 think that would be a serious error on my part as a
3 physician. I just wouldn't do that.

4 Q. Well I'm talking, though, about not just an
5 individual, I'm talking about the ability to even
6 define a group. Isn't it true that basically you
7 believe that stopping smoking is a process and there
8 is no defined group of people who you say "These
9 people just can't stop?" There is no such group;
10 correct?

11 A. You're reading from what I'm not sure, but I do
12 say frequently that stopping smoking is a process,
13 and we -- I have written that in other things that
14 I've written. Because it is a process. It doesn't
15 happen all at the same time. And if a person can
16 stop on their own without me doing anything, that's
17 fantastic. I think that's great. I have no -- I
18 have no preconceived notion that everyone should come
19 to a smokers clinic to do something like this, and if
20 a friend or relative or neighbor is able to stop on
21 their own, I think that's fantastic and I think they
22 ought to be -- feel really good about themselves
23 about being able to do that.

24 I have people call me up all the time to tell
25 me, I see people on the street that say you don't

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1 remember me, but back five years ago I was in your
2 office and we talked about this, and I didn't want to
3 do something then but something's happened in
4 between. I just want you to know that I've stopped
5 smoking a year and a half ago. That happens not
6 every day, but it happens a lot.

7 This is a process that takes a long time for
8 some people, and some people never get it, and some
9 people do die of tobacco-related diseases.
10 Q. But you cannot define any group of people,
11 because it's a process, there is no group of people
12 that you can say this group of people, they're just
13 not going to be able to stop; true?
14 MR. CIRESI: Objection, asked and answered.
15 MR. BERNICK: I don't think I've got an
16 answer.
17 THE COURT: It's repetitive.
18 MR. BERNICK: I don't think I've got an
19 answer, Your Honor.
20 THE COURT: Sustained.
21 BY MR. BERNICK:
22 Q. Did you give a deposition in this case, Dr.
23 Hurt?
24 A. I did.
25 Q. This is at page 150, if you want to take a look
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1 at your deposition. I think we put it over to the
2 right side there.
3 A. Which volume?
4 Q. Would you take a look --
5 I think it's probably going to be volume one,
6 page 150.
7 A. Okay.
8 Q. Do you see you were asked this question and gave
9 this answer at line eleven. "How do determine -- How
10 do you determine which set of smokers simply can't
11 stop?
12 "Answer: I don't think there is a set that
13 simply can't stop. I mean, the example I gave you
14 earlier about the guy that finally stopped but after
15 he had developed lung cancer, was able to stop but it
16 took a long time. Stopping smoking is a process, so
17 I don't know that there is a group that I'd say can't
18 stop. There are obviously some that are more
19 difficult to treat than others and some end up dying
20 of their tobacco-related diseases before they're able
21 to stop with other methods. So when a patient's in
22 front of you, you may want to try to help them, and
23 if they are a smoker you want to try to help them
24 smoking.
25 "Question: Have you ever had anyone go through
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1 the program at the Mayo Clinic, and either at the end
2 of that program or thereafter, relapsed, who come
3 back to you and you told them 'I just don't think you
4 can do it. You are wasting your time and my time?'
5 "Answer: I don't recall ever saying like
6 that -- anything like that to any patient. What we
7 try to do is to figure out different options for them
8 to use just like we were treating any other
9 completely condition. I mean just -- just because a
10 person's blood pressure isn't under control with one
11 or two different medicines doesn't mean we should say

12 you're stuck with it. We try to continue to work
13 with them to fix whatever the problem is."
14 Were those questions asked of you and were those
15 your answers in deposition, Dr. Hurt?
16 MR. CIRESI: Your Honor, totally consistent
17 with what's been testified to here.
18 MR. BERNICK: Well Your Honor, I object to
19 the statements in front of the jury. The jury can
20 reach their own conclusion about the answer that he
21 gave. The question is whether there's a defined set
22 of people who can't stop.
23 MR. CIRESI: Objection, improper use of
24 deposition.
25 THE COURT: Sustained.

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1 BY MR. BERNICK:
2 Q. If we talk about the range of difficulty, Dr.
3 Hurt, the range of difficulty in whether -- in
4 quitting smoking, I think you've testified that you
5 had difficulty yourself in quitting?
6 A. I did.
7 Q. Okay. And is it true that other researchers
8 have looked at the question of how difficult it is to
9 quit over a long period of time, really for more than
10 30, 40 years?
11 A. There have been a lot -- a lot of people that's
12 been done in that area, sure.
13 Q. Okay. And would it be fair to say that there is
14 a range, some people find it very difficult to quit,
15 some people find it difficult, some people find it
16 easy. Would that be a fair statement?
17 A. There is a spectrum of nicotine dependence.
18 Q. Okay.
19 A. That's the way you speak of it. It's a
20 spectrum that looks basically like a ski slope. The
21 higher you go up the ski slope, the more difficult it
22 is. And therefore we try to match the interventions
23 for the individual based on those levels of
24 dependence.
25 Q. Okay. Would you agree with the statement that

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1 for many people it's easy, for most it's somewhere in
2 between easy and difficult, and only for a minority
3 it is really difficult?
4 A. I'd have to see what you're reading from.
5 Q. I'm just asking whether you would agree with
6 that assessment.
7 A. Well it's probably something that's been written
8 by someone. If it's an article or if you'd like me
9 to look at the whole thing, the context in which that
10 statement was made, I'd be glad to look at it.
11 Q. It's a very simple question, doctor. I'm asking
12 just whether you agree with that basic proposition or
13 not.
14 MR. CIRESI: Objection, asked and answered,
15 Your Honor.
16 THE COURT: Counsel, do you have a article

17 that you'd like him to see?
18 MR. BERNICK: Sure.
19 THE COURT: Why don't you show it to him.
20 MR. BERNICK: I'd be more than happy to do
21 it, but I'm just asking the witness for a very basic
22 proposition. I don't have to show him.
23 THE COURT: Show him the article, please.
24 BY MR. BERNICK:
25 Q. Take a look at volume one, tab 34.
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1 MR. CIRESI: May we have the exhibit
2 number?
3 MR. BERNICK: Exhibit number is GK299.
4 A. Thirty-four?
5 Q. I'm sorry?
6 A. Thirty-four, is that what you said?
7 Q. Tab 34.
8 A. Yeah.
9 Q. That's the Horn monograph?
10 A. Yes.
11 Q. Okay.
12 A. A NIDA monograph from January of 1979.
13 Q. A NIDA, N-I-D-A?
14 A. National Institute of Drug Abuse.
15 Q. Okay. Can you tell us what the National
16 Institute of Drug Abuse is?
17 A. It's a branch of the National Institutes of
18 Health that has to do with drug abuse. There are
19 several other branches.
20 Q. Okay. And has the National --
21 Has NIDA been involved in smoking-dependence
22 issues for a very long time?
23 A. They -- they've done some work, less some years
24 than others. But they've been involved with it,
25 sure.

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1 Q. And in fact some of the people that we -- the
2 jury has already heard about this this case, Dr.
3 Henningfield, for example, used to be chief of the
4 Biology of Dependence and Abuse Potential Assessment
5 Laboratory at the Addiction Research Center there;
6 correct?
7 A. That's correct.
8 Q. And a number of people who have been heavily
9 involved and are authoritative in the field of
10 nicotine dependence and nicotine addiction have
11 written for, spoken at, and worked at NIDA; correct?
12 A. They have.
13 Q. Okay. And Dr. Horn in particular has got a
14 monograph that's been published here in connection
15 with NIDA proceedings in 1979?
16 A. That's right.
17 Q. Is it true that a wide variety of researchers on
18 smoking-related issues appeared and gave papers at
19 the NIDA conference in 1979?
20 A. I don't know which conference this was. There
21 are a lot of conferences.

22 Q. Okay. Dr. Horn himself is a person that's been
23 cited in several Surgeon General reports. He's
24 looked at smoking behavior for 30 or 40 years;
25 correct?

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1 A. That is correct.
2 Q. He's a recognized authority in the field of
3 smoking behavior?
4 A. Uh-huh.
5 Q. I'm sorry?
6 A. Yes.
7 Yes.
8 Q. Okay. And are NIDA proceedings and publications
9 publications that have recognized authority as
10 reliable sources within your field?
11 A. Yes.
12 Q. Okay. We --
13 And is this a part of the NIDA proceeding in
14 1979?
15 A. I don't know what it is. It says cigarette
16 smoking is a dependence process, got an editor, NIDA,
17 research monograph number 23, January 1979. If I've
18 seen this before, it's been so long ago I can't
19 remember what it is. I mean it's a one chapter out
20 of -- I'm not sure what it came from.
21 Q. But you see that it's actually issued by the
22 National Institute on Drug Abuse, NIDA?
23 A. Yeah, Division of Research, Fisher's Lane.
24 Yeah, that's what it says at the bottom. So I assume
25 that's the title page of the -- of the whole report.

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1 But I don't have the whole report, I just have the
2 one chapter. So if it's a conference, it could be a
3 conference. A lot of -- a lot of monographs come out
4 of conferences.
5 Q. Take a look.
6 (Document handed to the witness.)
7 Q. That's the whole document.
8 MR. CIRESI: Do you have another copy of
9 the whole document?
10 MR. BERNICK: We're not going to offer the
11 whole document. Just this one chapter.
12 A. So it was a meeting -- it was a meeting on June
13 19, 1978. So you're right, this came from a meeting.
14 MR. BERNICK: We would offer it, Your
15 Honor, learned treatise.
16 MR. CIRESI: The entire document?
17 MR. BERNICK: No, just -- just this Exhibit
18 GK299.
19 MR. CIRESI: We object, it's incomplete.
20 THE COURT: I would be concerned about just
21 parts of a learned treatise unless he's reviewed it.
22 MR. BERNICK: The whole thing is a series
23 of papers, Your Honor. We -- we would offer -- we
24 would be prepared to offer the whole thing.
25 THE COURT: I understand what it is,

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1 counsel.

2 MR. BERNICK: I'm sorry?

3 THE COURT: I understand what it is, but
4 you're putting this in through a witness who's not
5 even read what you're trying to establish as a
6 learned treatise. It's difficult unless he has a
7 chance to look through it.

8 MR. BERNICK: Well he can flip through the
9 table if he wants.

10 THE COURT: Well he's entitled to the read
11 it, not to flip through, if you want to introduce it
12 through this witness. Okay?

13 MR. BERNICK: All I want to introduce
14 through this witness, Your Honor, is the chapter.

15 THE COURT: I'm fully aware of what you
16 want to introduce, counsel.

17 MR. BERNICK: All right.

18 THE COURT: Okay. But you're introducing a
19 portion of a large transcript, and he has not had the
20 opportunity to read it.

21 MR. BERNICK: Well I think we've already
22 established that he's familiar with NIDA proceedings,
23 and I established that we're -- that we're -- we're
24 talking about a NIDA proceeding, this is part of a
25 NIDA proceeding. The only purpose of tendering the

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1 larger document is for him to confirm that this is
2 part of the NIDA proceeding, and I believe that that
3 lays an appropriate foundation under the rule.

4 THE COURT: Well --

5 MR. CIRESI: We object, Your Honor, it's an
6 incomplete document. In order to know whether it is
7 out of context, in context, reliable or not, a
8 witness would have to review the entire document, --

9 THE COURT: All right.

10 MR. CIRESI: -- which he has not done, for
11 which I object.

12 THE COURT: Why don't we take a short
13 recess, and if you're able to review the article in
14 context with the entire proceedings and are satisfied
15 that it's not taken out of context, then we'll allow
16 it. Okay?

17 Take a short recess.

18 THE CLERK: Court stands in recess.

19 (Recess taken.)

20 THE CLERK: All rise. Court is again in
21 session.

22 (Jury enters the courtroom.)

23 THE CLERK: Please be seated.

24 MR. BERNICK: Thank you.

25 BY MR. BERNICK:

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1 Q. Dr. Hurt, have you had the opportunity to take a
2 look at the -- the exhibit itself, GK299, and at

3 least familiarize yourself generally with the -- with
4 the proceeding from which it was taken?
5 A. I have.
6 Q. Okay. And do you see that there's a foreward to
7 the proceeding by Dr. Krasnegor -- or an introduction
8 I think it's called?
9 A. Correct.
10 Q. And if you go down, I think it's the bottom of
11 the second paragraph, he talks about the purpose of
12 the -- of releasing this collection of papers. Do
13 you see that purpose with regard to providing an
14 overview to the scientific community?
15 A. It's the foreward?
16 Q. I'm sorry, it's called the introduction.
17 MR. CIRESI: Your Honor, we're going to
18 object to reading from an exhibit that is not in
19 evidence.
20 MR. BERNICK: I'm not reading from the
21 exhibit, Your Honor, I'm trying to establish what the
22 exhibit is.
23 THE COURT: All right. You may answer
24 that.
25 A. I'm having a little trouble finding it. Okay,
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1 here it is, introduction.
2 Q. If you go down a couple paragraphs, you'll see
3 where he talks about the purpose of putting together
4 this collection of materials.
5 A. Well I don't see --
6 I'm looking for the word "purpose." Give me a
7 clue, because I'm having trouble --
8 In the second paragraph it says "Despite this
9 linkage, relatively little scientific research has
10 been conducted...."
11 Q. If you come down, he has a statement of
12 providing an overview to the scientific community.
13 Do you see that on that page?
14 A. Which paragraph?
15 Q. May I approach the witness?
16 I'm sorry. Sentence that begins --
17 A. Okay. Yeah, I see that.
18 Q. And does that state the purpose of assembling
19 the volume?
20 A. Yes. Says this --
21 Q. No. Does it state the purpose? Counsel doesn't
22 want --
23 MR. CIRESI: Well --
24 Q. See where it states the purpose?
25 MR. CIRESI: Your Honor, I'm going to
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1 object to the inappropriate comments of counsel of
2 what I don't want. This is not an exhibit that has
3 been designated, so we don't have a copy, and my
4 objection is that it's not in evidence so it should
5 not be read from.
6 THE COURT: I'll allow him to answer the
7 question.

8 A. I'm still trying to find the word "purpose." I
9 can tell you what that sentence says, but I have
10 scanned it three times and there's not "purpose"
11 written in there.

12 Q. In your own view, does it set forth the author's
13 statement of why the volume has been assembled for
14 purposes of being disseminated?

15 A. I can read what it says. I mean it's --
16 This volume, which includes papers presented at
17 this symposium, is designed to provide an overview
18 for the scientific community on the smoking habit and
19 an agenda to guide future research in this area.
20 That's what it says.

21 Q. Okay. And -- and -- and is --
22 Would that be a fair characterization of the
23 volume that's been put together as you have been able
24 to see the table of contents and the general scope;
25 that is, was --

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1 A. Yeah, this -- this is a monograph, and just so
2 everybody understands what a monograph is, a
3 monograph --

4 Q. Excuse me. I'm sorry, I didn't -- I don't think
5 I had finished my question.

6 Does that statement that you read from, is that
7 consistent with your view based upon the reading that
8 you've been able to do? And I understand you have
9 just been able to flip through it. Does that
10 statement comport with your view about the overall
11 purpose of this volume of papers?

12 A. That's what I was trying to explain.

13 Q. Okay. Go ahead, I'm sorry.

14 A. So a monograph is a collection of papers, a
15 conference where people speak at a conference, and
16 they record the -- record those proceedings
17 basically, and so this person -- or the people that
18 submitted these papers to this conference, after they
19 made their speech, then those papers become part of a
20 monograph. So it's not a peer-reviewed process in
21 that it doesn't go out for other people to look at
22 prior to the time that it's published.

23 NIDA is a good place, but this is not a peer-
24 reviewed piece of work in that sense, and the
25 articles here are basically the opinions of people,

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1 and they may or may not be based on all the available
2 science. That's what I'm saying.

3 Q. Okay. But I'd like a answer to my question.

4 As you looked at the volume, was it consistent
5 with the purpose that is described by Dr. Krasnegor;
6 that is, to provide an overview to the scientific
7 community about the current state of science in the
8 area?

9 A. I think it misses a lot of -- lot of areas, but
10 I mean it -- it provides information that could be
11 used by the community to understand different
12 individuals' opinion about this, that, or the other,

13 and some science. Lot of the reports in here are
14 basically a speech, and specifically the one that
15 you're talking about is this person's personal
16 experiences as well as -- as other things that he has
17 thought about. Even mentions things like his own
18 biases, his own prejudices in -- in writing. So this
19 is not something that I would rely on for my
20 testimony. It tells me where Dr. Horn was in 1979,
21 but I would not rely on something like this for what
22 I do on a day-to-day basis. Not at all.
23 Q. Okay. Well it talks about where Dr. Horn was in
24 1979; right?

25 A. That's -- that's correct.

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1 Q. And you've talked about where you are here today
2 in part based upon your own personal experiences as a
3 smoker; correct?

4 A. Correct.

5 Q. You feel that your own personal experiences as a
6 smoker -- as a smoker are germane and indeed very
7 much a part of your opinions as an expert; correct?

8 A. They are part of who I am. I can't help that.

9 Q. Okay. And do you recognize, as you have
10 characterized what Dr. Horn has said as being his own
11 personal views in 1979, there's an important part of
12 your own testimony before this court that reflects
13 your own personal perspective based upon your own
14 experiences; correct?

15 MR. CIRESI: Your Honor, I'm going to
16 object to this as being irrelevant. There's no
17 foundation for the document. Dr. Horn is not here to
18 be cross-examined.

19 THE COURT: The objection is sustained.

20 MR. BERNICK: The objection to the
21 question?

22 THE COURT: To the question is sustained.

23 MR. BERNICK: Okay.

24 BY MR. BERNICK:

25 Q. With regard to the particular chapter that
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1 pertains to Dr. Horn, if you take a look at the
2 footnote, do you see the footnote to the chapter?

3 MR. CIRESI: Your Honor, I'm going to
4 object to the use of the document. There's no
5 foundation for it under 803(18).

6 MR. BERNICK: Your Honor, I'm attempting to
7 lay the foundation. There's a footnote that
8 pertains -- it says this actually was taken from a
9 published article. That's what I'm directing his
10 attention to.

11 MR. CIRESI: If I may, Your Honor, the
12 witness has already stated he does not consider it
13 reliable. There's no foundation under 803(18).

14 THE COURT: Okay. I think you should ask
15 the witness the question and determine its
16 reliability, and then I'll rule on it.

17 MR. BERNICK: Okay.

18 BY MR. BERNICK:
19 Q. If you take a look at the footnote to the
20 chapter -- see the footnote?
21 A. Which page of the volume?
22 Q. It's on page 28.
23 A. Okay.
24 Q. Okay. Do you see that -- that in fact the --
25 the papers that have been presented were taken with
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1 minor changes from an article that Dr. Horn
2 published?
3 A. Yeah, the International Journal of Health
4 Education.
5 Q. Okay. And is that a peer-reviewed publication?
6 A. I couldn't tell you. I don't -- that's not on
7 my reading list. International Journal of Health
8 Education is not something I've ever seen.
9 Q. So you don't know one way or another whether the
10 text of the article -- the text of the monograph that
11 appears here is taken from a peer-reviewed
12 publication or not.
13 A. Correct. I mean it says it was put into this
14 other journal, but it's a journal that I don't -- I
15 don't have any knowledge of.
16 Q. Would it be fair to say, Dr. Hurt, that the
17 views that you expressed on the degree of difficulty
18 in quitting are not necessarily the views of other
19 people who have practiced in the same field for many,
20 many years?
21 A. If you give me an example of an individual, I
22 might -- can -- can tell you.
23 Q. Dr. Horn.
24 A. There are differences of opinion, sure.
25 Q. Dr. Horn is -- would be a good example; correct?
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1 A. I don't think Dr. Horn ever really treated
2 patients. He was an epidemiologist whose main fame
3 is in Hammond and Horn where the connection between
4 smoking and lung cancer and other diseases was made.
5 I don't know that he was ever a patient-seeing
6 person. He has a Ph.D., and I don't -- I don't know
7 exactly if he ever had a clinic per se.
8 Q. In fact, Dr. Horn is -- is the recite -- Dr.
9 Horn --
10 Are you familiar with his publications on
11 modifying cigarettes, smoking habits in high school
12 students?
13 A. I have seen reference to those. I couldn't tell
14 you if I've actually reviewed those articles. Again,
15 we're talking about things that were published a long
16 time ago, and we've actually learned a lot about how
17 to treat high school students since then, and we --
18 you know, we're doing it even as we speak.
19 Q. Dr. Horn has been cited for those articles on
20 smoking behavior in five different Surgeon General's
21 reports; hasn't he?
22 A. Could be. I don't --

23 You know, the references in the Surgeon
24 General's reports are long because the reports are
25 long. A lot of references are put in the Surgeon
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1 General's reports. So it could be, yeah, sure.
2 Q. I'm sorry, you said that the Surgeon General's
3 reports are wrong?
4 A. Long.
5 Q. Long. Okay.
6 A. Long.
7 Q. But --
8 A. Lots of pages, lots of references. The people
9 that write the chapters of Surgeon General's reports
10 go through the literature that's relevant to their
11 particular chapter. We intend when we do that to be
12 all-inclusive or more inclusive. So just because
13 someone is cited in a Surgeon General's report
14 doesn't mean it was good or bad, it was just cited.
15 It's like any other article.
16 Q. I thought you told us that Dr. Horn is a person,
17 before we took the break, who had been in this field
18 looking at smoking behavior and was respected for his
19 views because of the period of time that he had been
20 in the field. Isn't that true?
21 A. No, I didn't say that at all. What your
22 question was is Dr. Horn recognized as a -- as an
23 expert in smoking behavior, and I said yes. I
24 recognize his name. But I don't think he had working
25 knowledge of addiction as we currently think about or

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1 even as it was thought about in this series.
2 Other articles written in here by other people
3 have to do with the addictive process and withdrawal
4 symptoms and so on. This was -- this was a meeting
5 where people came together, were invited by NIDA to
6 make presentations. That's what it was. So I
7 don't -- I don't think you can make any more of it
8 than that.

9 Q. Let me talk about your own personal experience
10 that you shared with the jury in addition to your
11 views as you shared them with the jury. I take it
12 that you recognize that other people -- you --

13 I think you said that you quit more than 20
14 years ago?

15 A. 1975.

16 Q. Okay.

17 A. November 2nd.

18 Q. And you quit more than 20 years ago without any
19 kind of nicotine supplementation?

20 A. Correct.

21 Q. And I -- I think you said and your own words
22 were that it was the most difficult thing that you
23 did in your life.

24 A. I said it was the most difficult I've ever done,
25 that's correct.

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1 Q. Okay. And that hasn't influenced your views as
2 an expert, your own personal experience?

3 A. I think it allows me to have empathy for people
4 who are struggling with this. Because it's not a
5 simple deal at all, it's very difficult. It allows
6 me to understand. But does that mean that everyone
7 who treats people who are smokers has to be a
8 recovering smoker or former smoker? No. People can
9 understand that without -- without having been a
10 former smoker. But it allows me the ability to
11 understand this in a way that's personal. I think
12 that's okay.

13 Q. Dr. Horn was a former smoker, too; wasn't he?

14 A. Well he actually did the same thing I did, he
15 switched to a pipe. I don't know if he continued
16 smoking the pipe. I finally stopped smoking the
17 pipe, but I don't know if he did or not because it
18 doesn't say in his introduction.

19 Q. And --

20 A. I imagine that's something we tell our patients,
21 don't do that, don't switch to a pipe or cigar
22 because you're smoking those just like you did your
23 cigarettes.

24 MR. BERNICK: Move to strike as
25 non-responsive, Your Honor.

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1 THE COURT: I'll let it stand.

2 BY MR. BERNICK:

3 Q. Dr. Hurt, certainly you recognize that if other
4 people came in who had quit smoking and took the
5 stand just like yourself and talked about their own
6 experience in smoking, they could be reporting an
7 experience that was very different from your own.
8 Would you acknowledge that?

9 A. Sure. I mean people who stop smoking stop
10 smoking for difference reasons. Sure. People are
11 difference, sure.

12 Q. And with a wide range of degrees of difficulty
13 in the process?

14 A. There is -- there is that. I think I've already
15 said that there is a spectrum of this problem. Some
16 people can stop very easily and they have no
17 difficulty. And I think that's great.

18 Q. And in fact, have you taken the time --

19 This is a case that deals with cost recovery for
20 Medicaid recipients. Are you familiar with the
21 testimony that has been offered in this case by
22 individual Medicaid recipients, smokers, and what
23 they have said about whether they quit on their own
24 and the degree of difficulty? Have you familiarized
25 yourself with that part of the record?

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CROSS-EXAMINATION - DR. RICHARD HURT

1 A. Have I?

2 Q. Yes.

3 A. No, I have not.

4 Q. So you have no idea whether your own experience
5 as you've reported to this jury is the same as what
6 the record in this case says about the degree of
7 difficulty that has been seen by Medicaid recipients
8 when it comes to quitting; would that be fair?

9 A. Well all I can tell you is that we see patients
10 who are from all walks of life, they're Medicaid,
11 Medicare, people from all different walks of life
12 that we see as patients. And actually we try not to
13 identify what their potential reimbursement source is
14 when we see them as patients because that's not
15 really fair. We try to treat the patients for what
16 they are, what their problems is, without all the
17 other stuff. We let the business office focus on
18 that sort of stuff and we try to take care of the
19 patients. And the variety of patients we have seen
20 over the years is large, we've seen over 15,000
21 patients, so we've seen every size, shape and form.
22 But there are still a few surprises. Every week
23 there is another surprise, something we haven't
24 thought about before.

25 Q. But as you sit here today, you just don't know
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1 what the experience has been of the people who have
2 testified in this case when it comes to quitting; do
3 you?

4 A. No, I don't have any knowledge of who's
5 testified or -- or what they look like or anything
6 else.

7 Q. I want to take you back a little bit to the
8 history of quitting.

9 A. Are you through with this?

10 Q. Yes, I am. Thank you.

11 People have thought for a very, very long time
12 in the popular literature, the popular press, about
13 the fact that once you start, it's hard to quit
14 smoking; isn't that true?

15 A. I think that's been said, but -- in the popular
16 press. We certainly say it in our program. We try
17 to teach our children that. We try to teach them
18 that the best way to stop smoking is never to start.
19 Correct.

20 Q. And people have known ever since people started
21 using tobacco and tried to stop using tobacco, people
22 have known -- very common-sense proposition -- once
23 you start, it's hard to quit. Would that be correct?

24 A. I don't think you can generalize that to just
25 all forms of tobacco, because a cigarette is the most

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1842

1 efficient delivery form of nicotine that exists, it's
2 a delivery device for nicotine that achieves levels
3 that are higher than any other form of tobacco. So
4 you can't just lump tobacco together with cigarettes.

5 Q. Take either one. Isn't it a fact that it's been
6 said for literally centuries, when it comes -- even
7 before cigarettes: Once you start using tobacco,
8 it's hard to stop?

9 A. It could be. I guess you're -- you probably got
10 something in front of you. If you want me to refer
11 to that, I'd be glad to do that.

12 Q. Well you gave us a history lesson at the
13 beginning of your direct examination. Is an
14 important part of the history lesson that it's been
15 known literally for centuries that once you start
16 using tobacco, it's hard to stop using tobacco?

17 A. Once you become dependent upon it, it is
18 difficult, correct.

19 Q. Okay. And that's been published and known and
20 people have known that as a matter of basic practical
21 knowledge for hundreds and hundreds of years; isn't
22 that right?

23 A. Well again, it goes back to what we talked about
24 earlier, is the knowledge that's out there, does it
25 reach the consumer? Do they really know for sure?

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1843

1 The knowledge may be published in -- in things, but
2 they -- the people who are on the receiving end may
3 or may not have received that information, one; and
4 two, if they have become dependent, the denial and
5 rationalization is there that does not allow them to
6 internalize that information.

7 Q. The question I asked you was of the practical
8 wisdom. That's not the scientific publications and
9 the like. The practical wisdom, if you go back into
10 the history texts, as you have talked about the
11 history of tobacco, how it came to be used, how it
12 came over here to the United States, wouldn't we find
13 in those same texts that for hundreds of years it's
14 been practical, common knowledge that once you start
15 using tobacco, it's hard to stop? Isn't that a fact?

16 A. It has been stated in that way. But again,
17 you're talking about, specifically to deal with
18 cigarettes, the people that begin to use
19 cigarettes --

20 MR. BERNICK: Your Honor, this is -- this
21 is not responsive. I'm not asking about cigarettes.
22 I said hundreds of years before cigarettes. I'm
23 talking about the history.

24 THE COURT: Okay. You understand the
25 question?

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1844

1 THE WITNESS: Well I think so.

2 A. You know, the -- the -- I guess the -- the
3 addictive nature of tobacco has been hinted at for a
4 long time, but remember, the '88 Surgeon General's
5 report was the first Surgeon General's report to talk
6 about nicotine addiction. So difficulty --
7 difficulty starting once you -- stopping once you
8 start may have been talked about, but it really
9 wasn't really brought to that level of attention
10 until the last part of this century, I mean. So --

11 Q. I'm not talking about the Surgeon General's
12 report.

13 A. Pardon?

14 Q. I'm talking about what the guy in the street
15 says about quitting using tobacco. Long before
16 cigarettes, hundreds of years before cigarettes. You
17 know, I'll put the question one more time.

18 A. I wasn't here a hundred years ago. I didn't do
19 a survey of people on the street hundreds of years
20 ago. I think if you have something that says that,
21 I'd be glad to look at it.

22 Q. When you did your history lesson, did you go
23 back and take a look at what people on the street,
24 what has been said as a matter of common knowledge
25 for hundreds of years about the difficulty of

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1845

1 quitting? Did you do that research when you put your
2 history together?

3 A. There are -- there are statements in the
4 contemporary literature even, and even in some of the
5 literature earlier this century that speak -- say
6 that. Now whether or not that was based on
7 scientific surveys of people on the street -- those
8 things kind of get said. And there are some articles
9 earlier this century that -- that say those sorts of
10 things.

11 Q. Okay. We can go back and see all kinds of
12 articles --

13 A. Correct.

14 Q. -- as a matter of fact over time; correct? They
15 go back to the first part of the 1600s; don't they?

16 A. On what?

17 Q. Once you start using tobacco, it's hard to stop.
18 Can't we find references to tobacco's addictive? Can
19 we find those references in the public literature and
20 the newspaper articles and press statements going
21 back for hundreds of years?

22 MR. CIRESI: Objection, Your Honor, with
23 respect to the compound nature of the question.

24 THE COURT: It is a compound question.

25 BY MR. BERNICK:

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1846

1 Q. Well let me -- let me take you to Mark Twain.
2 Wasn't it Mark Twain that said to stop smoking was
3 the easiest thing he ever did; he hastened to add
4 that he ought to know because he had done it a
5 thousand times?

6 A. I think that's a quote from Mark Twain, sure.

7 Q. It's not only a quote from Mark Twain, it's also
8 a quote from Mark Twain that appears in the -- in
9 articles that have been published by people at the
10 Mayo Clinic; correct?

11 A. I don't know. You obviously have it in front of
12 you, so --

13 Q. Are you familiar with what the Mayo Clinic has
14 said over time in its own proceedings about the
15 difficulty of quitting smoking?

16 A. There have been articles, sure.

17 Q. Let's put the Mayo Clinic on the map here.
18 Isn't it true that -- let's just go back to the

19 1940s -- that in the early 1940s the Mayo Clinic was
20 publishing papers on the drug properties of nicotine
21 in cigarette smoke?

22 A. There have been several articles written, but
23 I -- you know, the Mayo Clinic doesn't write
24 articles, people at the Mayo Clinic write articles.
25 So if you've got a reference, I'd be glad to look at

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1847

1 it.

2 Q. Well do you know an article by Grace Roth --
3 Does the name Grace Roth ring a bell?

4 A. It does, but I couldn't put it in context.

5 Q. Are you familiar with Grace Roth's article in
6 1944 published in the Journal of the American Medical
7 Association on the effects of smoking cigarettes, and
8 particularly the effects of nicotine?

9 A. I may have seen that, but I couldn't -- I
10 couldn't tell you the content of the article.

11 Q. Could you take a look at GK69, which is at
12 volume two, tab 48a.

13 A. Which volume is it?

14 Q. I'm sorry, volume two, tab 48a.

15 MR. CIRESI: That's not designated,
16 counsel.

17 MR. BERNICK: I believe it was.

18 MR. CIRESI: Well it wasn't. GK69 has not
19 been designated.

20 MR. BERNICK: Oh, I'm sorry, 200069.
21 Sorry.

22 MR. CIRESI: Thank you.

23 BY MR. BERNICK:

24 Q. Do you see that, Dr. Hurt, is an article that
25 was published in the Journal of the American Medical
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1848

1 Association by Grace Roth in 1944?

2 A. Yes, it is.

3 Q. Do you see that at that time she was with the
4 Mayo Clinic?

5 A. It says from the Section of Clinical Physiology,
6 Mayo Clinic, Dr. Roth. Yes.

7 Q. Okay.

8 MR. BERNICK: We would offer it, Your
9 Honor, on two grounds, one, it's a learned treatise,
10 and the other, it's an ancient document. It is
11 also -- we're offering it for the fact of what was
12 being said within the state of Minnesota at that
13 time.

14 MR. CIRESI: It can only be offered under a
15 learned treatise. Foundation has to be laid for
16 that, Your Honor.

17 THE COURT: Have you read the article,
18 doctor?

19 THE WITNESS: Well if I have, it's been a
20 long -- I don't -- I don't recall reading it, but
21 I -- I could have, but it's been a long time.

22 Q. Did you make any --

23 When you came in to talk about nicotine and

24 addiction, did you make any effort to find out what
25 research had been published by the Mayo Clinic on
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1849

1 that subject going back over the years?
2 A. I made an effort to look at a lot of things.
3 This one may or may not have been in the stack that I
4 did. I honestly cannot recall.
5 If you can imagine the number of articles that
6 are produced at Mayo Clinic on an annual basis, there
7 are a large number and they're not necessarily
8 catalogued. So this one, I -- if I've seen it, it's
9 been a long time.
10 Q. Take a look.
11 A. Okay.
12 I've got the general gist of what they did, yes.
13 Q. Okay. This was in fact an article published on
14 the effects of nicotine; correct?
15 A. It was the effect of smoking.
16 Q. And the intravenous administration of nicotine.
17 A. I guess I haven't gotten to that part yet.
18 Q. It's right in the title.
19 A. Okay. Yeah.
20 Q. Okay? And -- and do you see that on the second
21 page --
22 Well let me just ask: Was it published in a
23 peer-review journal; correct?
24 A. It is.
25 Q. And published by a person who was a scientist
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1850

1 then at the Mayo Clinic; correct?
2 A. It was a person at the Mayo Clinic, yes.
3 MR. BERNICK: Okay. Your Honor, we would
4 offer this again --
5 Q. The date of the article is 1944?
6 A. July 15, 1944.
7 MR. BERNICK: Again, we would offer this on
8 all three grounds, as a learned treatise, it
9 establishes the fact of what was being said within
10 the state of Minnesota at the time concluded by the
11 Mayo Clinic, and it's also an ancient document, more
12 than 20 years old.
13 MR. CIRESI: It's irrelevant under an
14 ancient document. It's a medical treatise. If the
15 foundation is laid, it can be introduced under
16 803(18). And the last statement is no exception to
17 the hearsay rule.
18 THE COURT: It will be received under 803.
19 BY MR. BERNICK:
20 Q. If you take a look at the -- at page 762 --
21 Well first of all, let's take a look at the
22 title page.
23 Q. Journal of the American Medical Association,
24 July 1944 -- make everybody dizzy here for a
25 second -- "The Effect of Smoking Cigarettes and the
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1 Intravenous Administration of Nicotine," and you see
2 Grace Roth, Ph.D., is the lead author; correct?

3 A. Correct.

4 Q. And as you've indicated down here, it says from
5 the section on Clinical Physiology, Mayo Clinic, Dr.
6 Roth; right?

7 A. Correct.

8 Q. And you see that Dr. Roth is doing the study,
9 and as part of the study she goes back and takes a
10 look at the literature on nicotine, and she recites
11 Johnston.

12 Now Johnston was the same author of the same
13 article that we've already talked to the jury about.
14 He was the author in 1942 who said smoking is
15 basically the self-administration of nicotine and
16 smokers are addicts; correct? Remember that article?

17 A. I remember that article, yeah.

18 Q. Okay. And she's picking up on that same article
19 and saying "Johnston in England added to the nicotine
20 hypothesis by assuming that the smoking of tobacco is
21 essentially a means of administering nicotine. He
22 gave nicotine both hypodermically and intravenously
23 and obtained a vasoconstrictor effect similar to that
24 of smoking tobacco." Do you see that?

25 A. Uh-huh.

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1 Q. And again, that's the article that talks about
2 smokers being addicts; true?

3 A. Smokers being addicts, I think that's what he
4 said, but I'd have to go back and look.

5 Q. Well that's Exhibit 226, which is already in
6 evidence -- that's GK226 already in evidence. That's
7 the one that says, just right here, --

8 A. Right.

9 Q. -- "Smokers show the same attitude to tobacco as
10 addicts to their drug, and their judgment is
11 therefore biased giving an opinion of its effect on
12 them." That's denial?

13 A. No, that's not denial.

14 Q. That's not denial.

15 A. No.

16 Q. "Yet abstinence generally followed by improved
17 health." Do you see that? That's Johnston; right?

18 A. That's Johnston.

19 Q. Okay. And she's picking up Johnston and doing
20 her own research, right, in 1940?

21 A. Right.

22 Q. In fact, during the same period of time, is it
23 also true that even outside the medical literature --

24 Well let's pick up one other Mayo Clinic study.

25 The Mayo Clinic didn't just look at this in 1940, the

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1 Mayo Clinic continued to focus on smoking and the
2 difficulty of quitting in succeeding years; did it
3 not?

4 A. Again, there are different articles -- authors

5 at the Mayo Clinic, so if you've got one like this
6 one, we can talk about it.
7 Q. Well in fact you specifically cite in your
8 report a publication on the psychological aspects of
9 smoking by a Dr. Barry of Mayo Clinic in 1960; do you
10 not?
11 A. Dr. Maury Barry, yes.
12 Q. Okay. And he published a paper that you cite.
13 Take a look at volume two, tab 48.
14 A. Before we do this, just for my own
15 clarification, the Johnston article, when was that
16 published?
17 Q. 1942, Dr. Hurt.
18 A. Okay. Thank you.
19 So what's the other one?
20 Q. GK200001, it's volume two, tab 48.
21 A. Thank you.
22 Q. Is that the --
23 That's the Barry study?
24 A. Yes. Dr. Barry was a psychiatrist.
25 Q. And then -- I'm sorry. Is that a paper that you
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1854

1 cited and relied on in your report?
2 A. It was part of what I reviewed and it's
3 important for a lot of different reasons, personal
4 importance. He died of lung cancer.
5 Q. Did you cite it in your report, Dr. Hurt?
6 A. I did, yes.
7 MR. BERNICK: Okay, we'll offer it, Your
8 Honor.
9 MR. CIRESI: No objection under 803(18),
10 Your Honor.
11 THE COURT: Court will receive GK20001.
12 BY MR. BERNICK:
13 Q. This was published in the Proceedings of the
14 Mayo -- of the staff meetings of the Mayo Clinic; was
15 it not?
16 A. Yes, it was.
17 Q. 1960?
18 A. Correct.
19 Q. And Dr. Barry talks about the psychologic
20 aspects of smoking; does he not?
21 A. Yes, he does.
22 Q. And in particular he says "The heavy smoker
23 continues his habit because of two factors: A
24 pharmacodynamic or physiologic addiction with which I
25 shall deal very briefly, and a complex of unconscious
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1855

1 psychodynamic factors upon which I shall speculate at
2 slightly greater length.
3 "Clinical experimental data indicate that a
4 definite physiologic addiction to nicotine exists.
5 Johnston gave nicotine hypodermically to volunteers
6 who were both smokers and non-smokers."
7 So again, Dr. Johnston's 1942 paper and his 1942
8 theory that people are addicted and they smoke for
9 nicotine, Johnston's paper comes up again, now, in

10 1960 in Dr. Barry's publication; does it not?
11 A. Yes, it's cited again. But again, that's --
12 Q. That's a very --
13 A. -- one article.
14 Q. I see. I just asked you whether he cited it in
15 the paper. Did he not?
16 MR. CIRESI: Excuse me, can the witness
17 finish, Your Honor?
18 THE COURT: Allow the witness to finish his
19 answer, counsel.
20 A. The fact that one article is cited in two papers
21 means that one article was present in the literature
22 that they both made reference to. And that's part of
23 the point, is that there weren't a lot of references
24 to addiction.
25 Q. Well we'll -- we'll see now. Let's talk about
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1856

1 what the state was doing back --
2 I mean there's no issue, is there, Dr. Hurt, but
3 that during this period of time in the 1940s, 1950s,
4 we'll see more in the 1960s, the scientific
5 literature contained references, people were writing
6 down the theories saying smokers smoke for nicotine,
7 it's addictive. That was no secret to the scientific
8 community. Was it?
9 Just that fact, smokers smoke for nicotine, it's
10 addictive, was no secret to the scientific community
11 during this period of time; isn't that true?
12 A. To some within the scientific community that
13 were studying it. But, more importantly, the
14 consumers never heard it.
15 MR. BERNICK: Your Honor --
16 A. In fact, your companies deny and they still deny
17 today that it's addicting.
18 MR. BERNICK: Your Honor, I move to strike
19 the statement by the witness.
20 THE COURT: Well the answer will stand.
21 BY MR. BERNICK:
22 Q. Let's talk about what the schools within the
23 state of Minnesota were doing during this same period
24 of time.

25 Have you taken a look at what the state was
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1857

1 teaching in its own textbooks in 1944 and in the
2 1950s, teaching in its own textbooks about nicotine
3 and addiction? Have you looked at that?
4 MR. CIRESI: Objection, relevance.
5 THE COURT: No, you may answer if you know.
6 A. I did not.
7 Q. I want you to take a look at tab -- or volume
8 one, tab four. That's Exhibit BYB249.
9 MR. CIRESI: May I have that again, please?
10 MR. BERNICK: I'm sorry. It's BYB000249.
11 A. Okay.
12 Q. Are you with me there?
13 A. I am.
14 Q. Good.

15 A. "Individual and Community Health: Efficiency
16 for Living;" is it that.
17 Q. That's correct. And down at the bottom you see
18 "State of Minnesota, Department of Education,
19 September 1944?"
20 A. Uh-huh.

21 MR. BERNICK: Your Honor, we would offer
22 this document. It is a statement by the plaintiff in
23 the case through the Department of Education,
24 produced by the plaintiff in this case, and it's
25 further an ancient document.

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1858

1 MR. CIRESI: No objection on those grounds.
2 But there's no foundation for use of this, Your
3 Honor, and it's outside the scope of this witness.

4 THE COURT: Okay. It will be allowed into
5 evidence, BYB000249.

6 BY MR. BERNICK:

7 Q. Do you see, Dr. Hurt, where this is described as
8 being -- well let's take a look at the title page
9 which you just read, this is "Individual and
10 Community Health: Efficiency for Living," and we
11 were just reading from down at the bottom where it
12 says "State of Minnesota, Department of Education,
13 September 1944;" is that right?

14 A. Yes.

15 Q. Okay. And the first page at the top says "A
16 course of study in health education for the senior
17 high school." Is that right?

18 A. That's what it says.

19 Q. Okay. And if you want to flip to page 80 -- do
20 you have 80 down at the bottom, eight zero?

21 A. Well I've got a table of contents that goes from
22 page two to page 119, and I've got one page that says
23 79 and 80. Is that it?

24 Q. Yes.

25 MR. CIRESI: Your Honor, I didn't realize
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1859

1 he didn't have the full exhibit. We're going to
2 object to the incompleteness of the document.

3 THE COURT: Is that incomplete, counsel?

4 MR. BERNICK: Let me check on that. Do we
5 have the complete exhibit?

6 Your Honor, all that we have to display to the
7 witness is this excerpt. It was a document produced
8 by the state, and we will supply all of the other
9 pages and make it part of that same exhibit.
10 That's -- it's an error on our part.

11 MR. CIRESI: Well the fact that it was
12 supplied by the state -- there's millions of
13 documents in this litigation. We need the entire
14 exhibit so that we see it's being used in context.

15 THE COURT: Does the state have a copy of
16 the entire exhibit?

17 MR. CIRESI: Well not here, Your Honor.

18 MR. BERNICK: We can -- we'll just
19 substitute --

20 THE COURT: Could we continue this until we
21 get a copy of the entire exhibit?

22 MR. BERNICK: Well I guess it's pretty
23 important --

24 I'll tell you what, we can supply the full copy
25 of the exhibit after the noon hour, and I can pursue

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1860

1 a couple questions with the witness without getting
2 into the text of the document, and we'll pick it up
3 at that time.

4 THE COURT: All right.

5 MR. BERNICK: I apologize for the omission.
6 We just have what we were going to display here.

7 BY MR. BERNICK:

8 Q. Dr. Hurt, have you gone back -- when you made
9 the statement that you made about what the consumer
10 knew back in the '40s and in the '50s, have you gone
11 back to see what it is that the state of Minnesota
12 was telling students through textbooks and through
13 course work, telling students during this period of
14 time about nicotine addiction? Have you gone ahead
15 and done that?

16 A. No, I have not.

17 Q. Have you taken a look at popular press
18 publications during the '40s, '50s and '60s to see
19 what the popular press was saying to the people on
20 the street in the state of Minnesota about nicotine
21 and addiction? Have you done that?

22 A. I've seen some reports, but I haven't done a
23 systematic review of all the newspaper articles and
24 all of those things. No, I have not done that.

25 Q. When you formed your history about tobacco use
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1861

1 in the United States, did you go back and take a look
2 to see what had been said by the states when
3 cigarettes were prohibited for a period of time,
4 including in Minnesota in the early 1900s, did you go
5 back and see what was being said to the people on the
6 street about addiction at that time?

7 A. I recall some of those references, but I -- I
8 did not go back and look at all of them, no.

9 Q. Okay. Were you familiar with the fact that when
10 cigarettes were prohibited in the state of Minnesota,
11 prohibited to everybody, everybody on the -- nobody
12 on the street could have them, that the articles were
13 coming out and saying people are going to get their
14 cigarettes anyhow by going across state lines because
15 they're addicted? Did you familiarize yourself with
16 those publications?

17 MR. CIRESI: Objection. Objection to the
18 form of the question, Your Honor.

19 THE COURT: Sustained.

20 MR. CIRESI: Counsel is --

21 BY MR. BERNICK:

22 Q. You've told us a lot about what people -- what
23 was not in the public scientific literature but what
24 was in the public domain. Did you go back and take a

25 look to what the newspaper articles were saying about
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1862

1 addiction in the early part of this century right
2 here in Minnesota?

3 MR. CIRESI: Objection, asked and answered.

4 THE COURT: Do you understand that
5 question?

6 THE WITNESS: Uh-huh.

7 THE COURT: You may answer.

8 A. No, I -- I recall some, but I did not go back
9 and take a look at all of the newspaper articles back
10 at the first part of the century. No, I didn't.

11 Q. Are you here to tell this jury that people --
12 well let me put it this way: If we go back and -- we
13 go forward a little bit, now, into the early 1960s,
14 isn't it true that further publications came out in
15 the early 1960s about nicotine and addiction?

16 A. That could be. I'm sure you have something
17 there. If you'll show it to me, I can tell you if
18 I've seen it before.

19 Q. Okay. Well let me ask you this: People here in
20 the United States have heard about the Surgeon
21 General's reports. We've had reference to them in
22 this trial. Isn't it a fact that in England there
23 was a report that came out in 1962 by the Royal
24 College of Physicians?

25 A. I've read that report. I've seen it. I've

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1863

1 read -- read parts of it, yes.

2 Q. Yes. And that report came out in 1962; did it
3 not?

4 A. I think there were more than one report from the
5 Royal College of Physicians, but there was -- in '62
6 there was one.

7 Q. Right. And in fact it was part that report in
8 1962 that prompted the formation of the advisory
9 committee that ultimately wrote the 1964 Surgeon
10 General's report in this country; correct?

11 A. I -- it could have. I'd have to go back and
12 look at the beginning of the '64 report to see what
13 the origins -- all the origins --

14 There were a lot of origins to the '64 report.
15 If that was one of them -- it could have been.

16 Q. Was it --

17 Isn't it true that when the Royal College of
18 Physicians came out with their report in 1962, that
19 they referred to smoking as addictive or as an
20 addictive habit or as a habit, all three?

21 A. I mean I'd have to go back and refresh my memory
22 as to the Royal College of Physicians report. They
23 could have done one or all of those. I -- you must
24 have it in front of you or else we wouldn't be
25 talking about it like this, so if you want to talk

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1864

1 about it, let me look at it and I'll tell you what I
2 think of it.
3 Q. Okay. Well let me talk about one that I know
4 you referred to in your report and ask you a couple
5 questions about it, and that is research funded by
6 the tobacco industry.

7 Isn't it true that there was
8 research -- published research funded by the tobacco
9 industry right here in 1963 which said cigarette
10 smoking can be addictive?

11 MR. CIRESI: Your Honor, I'm going to
12 object to the form of the question. Counsel's
13 testifying.

14 THE COURT: You may answer that.

15 A. Well I mean it could have. I cannot remember
16 every article. You give me a citation of 1963 funded
17 by the tobacco companies and it says it's addictive.
18 I -- I don't have that kind of recall that I can
19 just --

20 So if you've got it in front of you, why don't
21 you just let me look at it with you? Then we can
22 talk about it.

23 Q. I will. Remember the Knapp report? The only
24 reason I say that is it's referred to in your own
25 report. Does that ring a bell?

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1865

1 A. I understand.

2 Q. Okay. Why don't we take a look at the Knapp
3 study, volume one, tab 6-A, that's GE828.

4 A. Okay.

5 Yes, this is the one I reviewed for my report.

6 Q. I'm sorry?

7 A. This is the one I reviewed for my report.

8 Q. It is or it is not? I couldn't hear.

9 A. It is.

10 Q. It is.

11 A. Uh-huh.

12 Q. Okay. As published in the American Journal of
13 Psychiatry?

14 A. Correct.

15 Q. Okay. And that's a peer-reviewed journal?

16 A. That is.

17 Q. Okay. And again, you referred to it in your
18 report.

19 MR. BERNICK: We would offer this into
20 evidence both as a learned treatise and also as an
21 ancient document. It was published in 1963.

22 MR. CIRESI: As an ancient document it's
23 inappropriate. Under 803(18) we have no objection.

24 THE COURT: It will be received under 803.
25 BY MR. BERNICK:

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1866

1 Q. American Journal of Psychiatry, January 1963;
2 right?

3 A. That's correct, yes.

4 Q. Okay.

5 A. Right.

6 Q. Do you see that the title of it is the
7 "Addictive Aspects in Heavy Cigarette Smoking" by
8 Peter Knapp?
9 A. That's correct.
10 Q. And it says further down here, "Nicotine is an
11 active agent, but not necessarily the only noxious
12 agent in tobacco; it appears to have certain
13 addictive qualities."
14 Does the article then go on to talk about
15 different kind of smokers, and then concludes in the
16 summary and conclusions section, "Heavy cigarette
17 smokers thus appear to be true addicts, showing not
18 only social habituation but mild physiologic
19 withdrawal." Do you see that?
20 A. I believe I do, but I --
21 Which page are you on?
22 Q. That is page --
23 A. Oh, it's at the very beginning.
24 Q. -- 971.
25 A. I have it. Correct.

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1867
1 Q. All right. And not only does it say that, but
2 the -- if you take a look at the references, it turns
3 out that Dr. Knapp, like the people at the Mayo
4 Clinic, are very familiar with the Johnston
5 publication in 1942 dealing with smoking is an
6 addiction, and Dr. Roth from the Mayo Clinic, her
7 publication on tobacco and the effects of smoking.
8 A. Uh-huh.
9 Q. And not just one, but two. And Dr. Knapp also
10 is citing work by Dr. Silvette in 1962 in
11 Pharmacological Review.
12 Again, Dr. Silvette and Dr. Larson over here,
13 those are studies that were funded by -- those were
14 publications that were funded by the tobacco
15 industry; were they not?
16 A. I think that's correct.
17 Q. And if we take a look at this particular
18 publication; that is, Dr. Knapp's publication on the
19 addictive aspects of smoking, this particular
20 research was actually sponsored by both the American
21 Cancer Society and by the Tobacco Industry Research
22 Committee; correct?
23 A. That's what it says. But it's -- it's -- you
24 have the title wrong, it's "Addictive Aspects in
25 Heavy Cigarette Smoking," not just "Cigarette

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1868
1 Smoking," so they really focused on heavy smokers
2 as --
3 In fact, their discussion leads off with "This
4 study dealt with heavy smokers who may well form a
5 special group or at least occupy a special position
6 in relation to smokers." So it's heavy smokers.
7 Q. My question was: Was this work funded by the
8 American Cancer Society and the Tobacco Industry
9 Research Committee?
10 A. That's what it says, right.

11 Q. Would it be fair to say that there were a number
12 of scientists who were focused on the role of
13 nicotine in published form, the role of nicotine and
14 whether it was a habit or an addiction at this time?

15 A. I don't know what the right number is. There
16 were some that were doing that, yes.

17 Q. Well it was sufficiently important to the
18 Surgeon General in 1964 to cite -- to specifically
19 address this issue in 1964; correct?

20 A. There is a section on -- on addiction, yes.

21 Q. So now at this point --

22 And the '64 report takes on this issue as an
23 issue; that is, is it a habit or is it an addiction.
24 Right?

25 A. That was the way it was displayed. They

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1869

1 discussed it, and that's part of the report, yes.

2 Just like the report also addresses did it cause lung
3 cancer.

4 Q. Did it cause lung cancer.

5 A. And they concluded that it did.

6 Q. Well that isn't exactly what the report --

7 Is the Surgeon General's 1964 report in
8 evidence?

9 MR. BERNICK: All right, we would offer,
10 Your Honor, Exhibit GK3, which is the Surgeon
11 General's report 1964. And I think that we may have
12 an agreement between the parties that, subject to our
13 disclosure requirements with regard to a given
14 witness, that the Surgeon General reports can be
15 admitted into evidence. I don't know if that's
16 correct, Mr. Ciresi.

17 MR. CIRESI: That is correct, Your Honor.

18 THE COURT: Okay. Court will receive GK3.

19 MR. BERNICK: Okay. Do we have the '64
20 report, the book?

21 May I approach the witness, Your Honor?

22 BY MR. BERNICK:

23 Q. I want to show you --

24 We made a full copy and broke it down by
25 chapters.

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1870

1 A. Okay.

2 Q. And chapter 13 relates to smoking.

3 Does chapter 13 of the Surgeon General's report
4 in '64 talk about smoking behavior?

5 A. Well it's title is "Characterization of the
6 Tobacco Habit and Beneficial Effects of Tobacco."
7 That's 13.

8 Q. And do you see that at page 350, the Surgeon
9 General report decides to make a distinction between
10 drug addiction and drug habituation?

11 A. Yes, on the --

12 Q. Okay.

13 A. On 30, yes.

14 Q. And I don't -- I want to just capture a little
15 bit above this. "In the recitation "-- we'll put

16 down here habit and addiction. "In the recitation,
17 the evidence indicates dependence is psychogenic in
18 origin. In medical and scientific terminology the
19 practice should be labeled habituation to distinguish
20 it clearly from addiction, so that the biological
21 effects of tobacco, like coffee and other
22 caffeine-containing beverages, betel morsel chewing
23 and the like, are not comparable to those produced by
24 morphine, alcohol, barbiturates, and many other
25 potent addicting drugs." Do you see that statement?

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1871

1 A. Yes, I do.

2 Q. Okay. So at this point in time, at least, the
3 Surgeon General is kind of developing through these
4 two terms the ability to group different substances
5 that would today be considered dependence-producing
6 substances, to put them into two different groups at
7 this point in time; correct?

8 A. I don't think they did that at all. In fact,
9 you have to read the next sentence, "In fact, to make
10 this distinction, the World Health Organization
11 Expert Committee on Drugs Liable to Produce Addiction
12 created the following definitions which are accepted
13 throughout the world," and this is really the key
14 part, "as the basis for control of potentially
15 dangerous drugs."

16 Q. Fine.

17 A. So this really is the World Health Organization
18 definition.

19 Q. Okay, fine. The World Health Organization
20 definition in 1967, correct, the then-current
21 definition.

22 A. That is the one until later in 1964 that said
23 that nicotine was dependence producing.

24 Q. We're going to get to it in good, Dr. Hurt.

25 A. Okay. Yes.

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1872

1 Q. Under habit, the '64 report groups tobacco,
2 coffee or caffeine -- coffee which contains caffeine,
3 and the betel morsel. That's chew --

4 A. That's the beetle nut.

5 Q. Oh. Is that right?

6 A. Uh-huh. And actually it is hallucinogenic.

7 Q. Right.

8 A. And I don't think they classify it the same way
9 today.

10 MR. BERNICK: Your Honor, I move to strike
11 the statement. We're going to get to today in a
12 minute; I'd just like to be able to go through the
13 '64 report.

14 THE COURT: I'll let it stand.

15 Q. And over here we've got morphine, alcohol --
16 alcohol, and barbiturates; right? That's what that
17 paragraph says; right?

18 A. That's what it says.

19 Q. Okay. And on the next page, the report sets out
20 definitions or really criteria for distinguishing

21 drug addiction from drug habituation; right?
22 A. Correct.
23 Q. And then goes on to say, when it comes to
24 tobacco, that it should be characterized as
25 habituation; right?

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1873

1 A. That's what it says.
2 Q. But at the same time it goes on to say,
3 "Correctly designating the chronic use of tobacco as
4 habituation rather than addiction carries with it no
5 implication that the habit may be broken easily."
6 The Surgeon General wanted to take care that
7 that was not the message that was being sent; is that
8 fair?
9 A. Correct. As long as it is generally accepted,
10 because that's really an important sentence. It says
11 "It is generally accepted among psychiatrists that
12 addiction to potent drugs is based upon serious
13 personality defects from underlying psychologic or
14 psychiatric disorders that may become manifest in
15 other ways as the drug is removed." That may have
16 been the conventional wisdom in 1964, but that isn't
17 the current wisdom today.

18 MR. BERNICK: Your Honor, I move to strike.
19 If I'm going to be able to conduct cross-examine, I'd
20 like to have answers that are focused at least on the
21 same question that I ask about.

22 THE COURT: Well it is in the same
23 paragraph, so I believe it's fair. I'll let it
24 stand.

25 BY MR. BERNICK:

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1874

1 Q. There was a whole committee as part of the
2 Surgeon General's committee that was dedicated to
3 writing this chapter; correct?
4 A. There was a committee, yes.
5 Q. Okay. And they got their heads together to
6 figure out what they wanted to do. They came out
7 with this as their conclusion at that time; correct?
8 A. The committee actually was formed by people from
9 different organizations recommending people to be on
10 the committee, so they didn't just kind of get
11 together. People from the American Cancer Society,
12 the Lung Association, the tobacco industry could
13 designate members to the committee. And in addition,
14 each member -- as a suggested member for the
15 committee, each member organization had veto power
16 over any person that might be suggested by someone
17 else. So they didn't just kind of get their heads
18 together; it was a very well-organized and
19 -orchestrated sort of event.
20 Q. Fine. I'll accept that.
21 And they came out with their conclusion at that
22 time that said, after all this discussion, we're
23 going to call it in 1964 not an addiction, but a
24 habit; right?
25 A. That's what they said.

1875

- 1 Q. Okay. And that was soon to change, as you've
2 already pointed out. After 1964 the issue of
3 whether -- of what to call smoking, whether to call
4 it an addiction, whether to call it dependence, that
5 issue continued to evolve as time went on after the
6 Surgeon General's report; correct?
7 A. That's correct.
8 Q. Indeed, right after the Surgeon General's
9 report, as you've already pointed out, the WHO
10 organization decided to abandon the distinction
11 between habit and addiction and instead talk about
12 dependence; right?
13 A. And the reasons were --
14 Q. Did they do that, Dr. Hurt?
15 A. They did.
16 Q. Okay. And as time went on, dependence became a
17 term that was used by other organizations as well,
18 including the APA in the Diagnostic and -- the DSM
19 publication; correct?
20 A. Yes, the Diagnostic and Statistical Manual,
21 that's correct.
22 Q. Okay. Now you've talked about DSM IV. That was
23 issued in 1990; true?
24 A. I think that's right. Okay. And there were --
25 so it's the fourth -- actually it's probably the

1876

- 1 fifth one.
2 Q. Right. There was DSM III, there's the DSM IVA
3 and then DSM V?
4 A. And I and II.
5 Q. And obviously I and II. And isn't it true that
6 in 1974, is it, in 1976 -- sometime in the 1970s, DSM
7 adopted dependence language and dependence criteria;
8 correct?
9 A. I can't remember the exact date. That sounds
10 about right.
11 Q. By 1980 DSM was specifically talking about
12 nicotine dependence.
13 A. Uh-huh.
14 Q. Right?
15 A. Yes. Yes.
16 Q. Surgeon General comes along in 1988 and says we
17 now want to say that cigarette smoking is addictive.
18 That was the conclusion of that report; right? '88
19 Surgeon General's report.
20 A. That nicotine is addictive, yes.
21 Q. Okay. And then when the APA came along with DSM
22 IV in 1990, they used the word dependence.
23 A. Correct.
24 Q. And you've told us that even though the label is
25 different, they're basically interchangeable.

1877

- 1 A. They are.

2 Q. They are.
3 Now is it also true that after all of these
4 different labels and different pronouncements, that
5 the criteria or the definitions for addiction have
6 changed in the minds of the scientific community
7 since 1964?
8 A. Science is not static. I mean when you learn
9 more things you have to adapt to science moving
10 forward. So as we learn more about these things,
11 definitions change, test names change, a lot of
12 things change.
13 Q. Right.
14 A. So that's -- so -- so it's not static. It
15 didn't stay like it was in '42 or --
16 So this is the current operational definition
17 that we operate under.
18 Q. Right. If we use the current operational
19 definition that is accepted by the scientific and
20 medical community today, smoking is addictive, or
21 call it dependence -- a dependence-producing
22 substance; true?
23 A. Nicotine is.
24 Q. Nicotine --
25 A. And nicotine --

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1878

1 Q. -- is dependence-producing.
2 A. If you take nicotine out of cigarettes, they
3 wouldn't be addictive.
4 Q. Okay. Now isn't it also true that as the
5 definitions have changed and science has come along,
6 if we went back to some of these other materials --
7 oops.
8 Let's take caffeine. Isn't it true today that
9 under the current definitions of dependence and even
10 addiction, that caffeine -- I don't even know if I'm
11 spelling that right -- caffeine is a substance of
12 dependence in some people?
13 A. Not according to the DSM IV. And that's --
14 that's really --
15 In fact, they have a subset of that on caffeine
16 intoxication. But as far as the World
17 Health Organization or the AMA, APA, classifying
18 caffeine as an addictive substance, that's not done.
19 Some of the criteria that are used for substance
20 dependence people with -- that are users of caffeine
21 have. But, you know, I don't -- I don't know --
22 Q. Dr. Hurt --
23 A. I don't know anybody that drinks coffee, I
24 don't --

25 Certainly doesn't kill anybody. Certainly
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1879

1 doesn't kill 400,000 people a year. So on orders of
2 magnitude, we're talking about something that's not
3 even on the same page.
4 MR. BERNICK: Your Honor, I move to strike
5 as being non-responsive. I asked a very specific
6 question.

7 THE COURT: Okay. It is non-responsive.
8 MR. BERNICK: Sorry?
9 THE COURT: It is non-responsive.
10 MR. BERNICK: Okay.
11 BY MR. BERNICK:
12 Q. Are you familiar with the publications of Dr.
13 Benowitz and Dr. Henningfield and Dr. Hughes on the
14 subject of whether caffeine is a substance of
15 dependence and addiction?
16 A. I'm familiar with a lot of their articles.
17 There has been a fair amount written about this,
18 actually.
19 Q. Okay.
20 A. But I'd have to look at which ones you're
21 talking about.
22 Q. We keep on talking about these names, Dr.
23 Benowitz, Dr. Henningfield. And Dr. Hughes we
24 haven't talked about as much. Is it fair to say that
25 Benowitz and Henningfield are probably some of the
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1880
1 best-known and most highly regarded scientists and
2 doctors today in the field of nicotine dependence?
3 A. They're well recognized, yes.
4 Q. Indeed, they are some of the principal authors
5 of the 1988 Surgeon General's report; correct?
6 A. They were -- they were two of the most -- most
7 influential ones that did the most, yes. They were
8 very much involved.
9 Q. And isn't it true that they have written
10 specifically with regard to the addictive nature of
11 caffeine?
12 A. They've written about that. I think that all
13 three of them have articles about that.
14 Q. Okay. And isn't the position that is taken by
15 Dr. Benowitz, Dr. Henningfield --
16 MR. CIRESI: Objection. Objection.
17 Counsel is testifying. The form of the question is
18 inappropriate.
19 THE COURT: Well I haven't heard the
20 question so it's hard for me to rule.
21 BY MR. BERNICK:
22 Q. Isn't it the view of Dr. Benowitz, Dr.
23 Henningfield and Dr. Hughes, all of them, that
24 caffeine is a substance of dependence and addiction?
25 MR. CIRESI: Same objection, Your Honor.
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1881
1 THE COURT: You may answer that.
2 A. I'd have to see the articles you're talking
3 about. They write a lot of articles. So let's just
4 turn to one.
5 Q. Okay.
6 A. I mean that -- which page?
7 Q. I'm sorry, take -- take a look at tab -- or
8 volume two, tab 42, Exhibit GK100225.
9 A. Which volume?
10 Q. Volume two, tab 42.
11 A. Just a moment.

12 Q. Okay. And it's GK --
13 MR. BERNICK: Mike, it's GK100225.
14 A. Okay. If I've seen this, it's been a while, but
15 it's from the Annual Review of Medicine.
16 Q. Peer-reviewed journal?
17 A. I've never had anything published there. I've
18 never reviewed any of the articles there. I don't
19 know if it's quite the same as a peer-reviewed
20 journal or not. I think it may be more requested
21 articles submitted. But that's okay. I don't -- I
22 don't know for certain it's a peer-reviewed journal,
23 Annual -- Annual -- Annual Review of Medicine. Could
24 be.
25 Q. Okay. And Dr. Benowitz obviously is an
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1882

1 authority in his field; correct?
2 A. Yes, that's correct.
3 Q. And just take a look --
4 This article on the clinical pharmacology of
5 caffeine, would this article be recognized, insofar
6 as who the author is and the subject matter, would
7 this author -- would this article be recognized as a
8 reliable authority in the field of those practicing
9 or dealing with nicotine dependence and addiction and
10 caffeine dependence and addiction?
11 A. Yeah, he's -- he's an authority, yes.
12 Q. Okay.

13 MR. BERNICK: Well we would offer it as a
14 learned treatise, Your Honor.

15 MR. CIRESI: Objection on relevance. No
16 objection on learned treatise.

17 THE COURT: Okay. It will be allowed into
18 evidence then.

19 BY MR. BERNICK:

20 Q. It's a rather extensive article on -- on the
21 clinical pharmacology of caffeine; is it not?

22 A. Yes. That's what it says.

23 Q. And in fact it goes on for quite some time
24 talking about the different properties -- different
25 pharmacological effects of caffeine; right?

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1883

1 A. That's correct.
2 Q. And in the course of the article it considers
3 issues such as physical dependence. "Abstinence from
4 a drug such as caffeine has produced a high degree of
5 tolerance" --

6 Tolerance is one of the criteria for dependence
7 and addiction; is it not?

8 A. That's correct.

9 Q. -- "commonly results in withdrawal
10 symptoms" --

11 That's another criteria for dependence and
12 addiction; is it not?

13 A. Yes, it is.

14 Q. -- "referred to as physical dependence.
15 Withdrawal symptoms after prolonged consumption of
16 caffeine include headache and fatigue most commonly

17 with anxiety, impaired psychomotor performance,
18 nausea, vomiting, and an intense desire for coffee a
19 less common feature. Withdrawal symptoms typically
20 begin at 12-24 hours and peak at 20 hours. Relief of
21 withdrawal symptoms appears to be a substantial
22 component of the satisfaction of coffee drinking,
23 particularly the first cup of the day." Do you see
24 that statement?
25 A. Uh-huh, yes.

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1884

1 Q. And the overall introduction provides an
2 overview. It says, "Caffeine is the most widely
3 consumed stimulant drug in the world. This article
4 reviews the human pharmacology of caffeine".
5 Is caffeine a substance that has drug effects,
6 Dr. Hurt?
7 A. Yes. Yes, it is.
8 Q. Okay. And drinking a cup of coffee gives you a
9 dose of a drug with pharmacological effects; true?
10 A. As long as it's caffeinated coffee, yes.
11 Q. And only if it's caffeinated coffee.
12 And caffeine is also in soft drinks; is it not?
13 A. Yes, it is.
14 Q. Okay. And what that article is saying is that
15 there is also some evidence that caffeine produces
16 some of the other tests or indicia for dependence:
17 tolerance, which means you get used to more and more.
18 A. Right.
19 Q. And withdrawal, which is when you stop it or
20 abstain, you have symptoms that will result; correct?
21 A. Correct.
22 Q. It then it goes on to say, "Mankind's most
23 popular drug." And it goes on to say, "Widespread
24 caffeine use is of interest in that it reflects the
25 propensity of people to use stimulant drugs with the

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1885

1 attendant addiction liability;" that is, the risk of
2 becoming addictive. Right?
3 A. That's what addictive liability is, yes.
4 Q. "And it may contribute to human disease;" is
5 that what it says?
6 A. That's what it says.
7 Q. Okay. Now isn't it also true that Dr. Benowitz
8 in expressing his view actually has petitioned the FDA
9 to perform a review of caffeine because of its
10 addictive properties and determine whether further
11 regulatory steps should be taken with regard to
12 caffeine and soft drinks, particularly because soft
13 drinks are consumed by kids?
14 MR. CIRESI: Objection, relevance, Your
15 Honor.
16 THE COURT: Sustained.
17 MR. BERNICK: I believe -- I'm sorry? I'm
18 sorry, Your Honor, I didn't -- I didn't hear.
19 THE COURT: Sustained.
20 BY MR. BERNICK:
21 Q. Are you familiar with Dr. Henningfield's views

22 on this same subject?
23 A. I've seen some things that Dr. Henningfield has
24 written, yes.
25 Q. Is basically Dr. Henningfield taking the same
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1 position as Dr. Benowitz; that is, that caffeine is
2 an addictive substance?
3 A. I --
4 MR. CIRESI: Excuse me. Objection, Your
5 Honor, relevance.
6 THE COURT: I think we've pretty well
7 covered that area. Let's move on.
8 MR. BERNICK: This would be a good time to
9 break, Your Honor, if it's convenient for the court.
10 I'm more than happy to go on for a while, but I'm at
11 a break.
12 THE COURT: Let's recess for lunch. We'll
13 reconvene at 1:40.
14 THE CLERK: Court stands in recess to
15 reconvene at 1:40.
16 (Recess taken.)
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1 AFTERNOON SESSION.
2 THE CLERK: All rise. Court is again in
3 session.
4 Please be seated.
5 (Discussion off the record.)
6 THE CLERK: All rise. Court is again in
7 session.
8 (Jury enters the courtroom.)
9 THE CLERK: Please be seated.
10 BY MR. BERNICK:
11 Q. Good afternoon.
12 I want to get back to a couple clean-up
13 questions on the design of cigarettes and a question
14 I asked you about regarding low delivery cigarettes,
15 Dr. Hurt.
16 Remember we talked about the advertisements,
17 then we talked about what science says today about
18 compensation -- this is all pertaining to low
19 delivery cigarettes -- and then finally I asked you
20 what science has said about whether -- what "low
21 delivery" means to the smoker in terms of risk,
22 whether there was a reduced risk from lower delivery
23 cigarettes. And I think you told me -- we talked
24 about the epidemiological studies. I wanted to focus
25 on another source of information for just a moment,
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1 and that is the Surgeon General of the United States.
2 Are you familiar with what the Surgeon General
3 of the United States has said about whether lower --
4 lower delivery cigarettes carry with them a reduced
5 risk of lung cancer?

6 A. I -- I need to see the documents you're talking
7 about, so --

8 Q. Okay. If you could turn to -- this would be
9 Exhibit JG -- or GJ114, --

10 A. Do you have a volume number?

11 Q. -- which is the '81 Surgeon General's report.
12 I guess it's in CG237.

13 MR. BERNICK: Is that right, Michele?

14 Q. Okay. And turn to page 18.

15 A. I just need to know where to look. What volume?

16 Q. I'll just give it to you.

17 Recognize that as the '81 Surgeon General's
18 report? If you turn to page 18, --

19 A. Okay.

20 Q. -- do you see where it makes statements
21 regarding cancer and lower tar cigarettes, paragraph
22 one? Do you see the paragraph?

23 A. I see that, yeah.

24 Q. Okay. And again, this is 1981. Deliveries in
25 cigarettes -- tar deliveries in cigarettes have been

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1 coming down really since about the early 1950s; is
2 that accurate?

3 A. Something like that.

4 Q. Yes. And it was at that time that they first
5 had widespread usage of filters that were being added
6 onto the ends of cigarettes; right?

7 A. Right. That was the first health-reassurance
8 sort of product, was to add filters to the unfiltered
9 cigarettes.

10 Q. Okay. So we're now kind of almost 20 years
11 later, and the Surgeon General says, "Today's
12 filter-tipped, lower tar and nicotine cigarettes
13 produce lower rates of lung cancer than do their
14 higher tar and nicotine predecessors. Nevertheless,
15 smokers of lower tar and nicotine cigarettes have a
16 much higher lung cancer incidence and mortality than
17 do non-smokers." Do you see that statement?

18 A. I see it, yes.

19 Q. Okay. And further on, if you -- if you deal --
20 if you go down to paragraph seven, "Even those who do
21 not develop cancer, histologic changes in the
22 tracheobronchial tree are more advanced at autopsy in
23 smokers of cigarettes with higher tar and nicotine
24 than among smokers of cigarettes with lower yields."
25 Correct?

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1 A. That's what it says.

2 Q. And then finally when you get to the tar content

3 of smoke condensate, "The tar content of smoke
4 condensate in many of today's cigarettes is less
5 tumorigenic to mouse skin than that of cigarettes of
6 30 years ago. Levels of the known carcinogen
7 benz(a)pyrene are lower in the smoke of today's
8 cigarettes than in that of cigarettes of 30 years
9 ago. Flavor additives used in lower tar and nicotine
10 cigarettes produce traces of mutagenic compounds."

11 Were those the basic statements of the Surgeon
12 General in 1981 regarding whether lower delivery
13 products in fact do produce lower risk, Dr. Hurt?

14 A. Well those are some of the statements. You
15 know, this is a whole --

16 This is a big report, even though it's not quite
17 as long as the other ones. That's what it says.
18 Those are in the summary, I think. Yes, it goes back
19 to the other -- page 16, which talks about the
20 summaries of the pharmacology and toxicology, cancer,
21 cardiovascular disease, chronic obstructive lung
22 disease, pregnancy and so on. So these are the
23 summary statements from that.

24 Q. Okay. Now I wanted to ask you a little bit
25 about something else you said concerning low delivery

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1 cigarettes. I'll talk now about these three items.
2 I want to pick up something else you said about low
3 delivery cigarettes and what your patients you thought
4 believed, which is that some change had been made in
5 the tobacco itself. Do you recall your testimony
6 about that?

7 A. Most patients believe -- or they assume if
8 something's being packaged as a lower tar product,
9 that it would have lower -- something that's been
10 done to the tobacco. It's like the Marlboro and the
11 Marlboro Light. If a person switched from a Marlboro
12 Red to a Marlboro Light, they would assume, and
13 they -- this is what they say, that someone's done
14 something to the tobacco to change that so that it's
15 lower in all the bad stuff. That's what they tell
16 me.

17 Q. Sure. And the FTC machine picks up not only
18 changes that would occur in tobacco itself, the FTC
19 machine also picks up changes in the physical design
20 of the cigarette like the ventilation holes; right?

21 A. Uh-huh. Correct.

22 Q. It also picks up if the paper is porous, and
23 that has an impact on how much air gets mixed in with
24 the smoke and the smoke concentration. It would pick
25 up those kinds of changes as well as changes in the

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1 filter itself; correct?

2 A. It would -- it would do that to the best of the
3 ability of the machine to do that.

4 Q. Right. So the FTC machine in a sense picks up
5 any and all physical factors and compositional
6 factors of the tobacco that would affect the smoke as
7 it comes out of the end of the cigarette. Fair?

8 A. As it's smoked by the machine.
9 Q. As it's smoked by the machine.
10 Now in point of fact, isn't it true that,
11 together with all of the other recommendations that
12 were being made by the National Cancer Institute in
13 the 1970s regarding changes to cigarettes, that the
14 National Cancer Institute and Dr. Gori were also
15 recommending -- this goes back to Exhibit GI27 --
16 that one of the strategies for achieving a low risk
17 cigarette -- Dr. Gori, remember, was part of the
18 Tobacco Working Group, said, "One of the
19 strategies" --
20 A. Pardon me. Which Tobacco Working Group?
21 Q. I'm sorry?
22 A. The part of which Tobacco Working Group? You
23 said he was part of the Tobacco Working Group. I'm
24 just asking which one.
25 Q. Well are you aware of any other Tobacco Working
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1 Group with the National Cancer Institute?
2 A. No. I wasn't familiar --
3 Is it the NCI?
4 Q. Oh, yes. I'm sorry.
5 A. The NCI.
6 Q. The National Tobacco -- National Cancer
7 Institute Tobacco Working Group, 1970s, Gio Gori,
8 10-year program, 60 million dollars. Yeah, that one.
9 Now if you take a look at the paragraph at the
10 bottom of the page, it says, "First, it may be
11 possible to remove toxic smoke components selectively
12 and thus reduce specific hazards."
13 Now that strategy would be the strategy that
14 would include changes to the tobacco itself; correct?
15 A. That would be like removing carcinogens --
16 Q. Yes.
17 A. -- like benzpyrene or one of the other
18 carcinogens.
19 Q. Okay. Now in point of fact, isn't it true that
20 the Tobacco Working Group itself focused very
21 specifically on how to change -- whether it was
22 possible to change tobacco in precisely this kind of
23 way in order to reduce the risk associated with the
24 tobacco? Wasn't that part of what their work was?
25 A. That's part of what they were considering, yes.

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1 Q. Okay. In point of fact, what The Tobacco
2 Institute National -- or the -- the Tobacco Working
3 Group, National Cancer Institute effort accomplished
4 was that they used mouse skin-painting -- mouse
5 skin-painting as a measure of the potential toxicity
6 of different kinds of cigarettes; right?
7 MR. CIRESI: Objection, scope and form of
8 the question.
9 THE COURT: Do you understand the question?
10 THE WITNESS: Well I --
11 A. This is a very broad question. If you -- I need
12 to see more than just MSP up there if we're going to

13 talk about all the things that that group did. They
14 did a lot of things.

15 Q. Sure.

16 A. And so if you've got some documentation I can
17 look at, I'd be glad to do that.

18 Q. There's vast documentation of the Tobacco
19 Working Group. Are you familiar with the final
20 conclusions the Tobacco Working Group reached?

21 A. I think the overall conclusion was that there
22 was no way to design a safer cigarette. That was
23 kind of the overall -- overall conclusion.

24 Q. And in reaching that conclusion, didn't they
25 take a look at epidemiological data; that is,

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1 comparative data on how smokers fared from the point
2 of view of disease?

3 A. They could have. That -- that was a large group
4 for a long time, did a lot of work. I'm not going to
5 be able to tell you all the different parts of what
6 they did. I mean that's --

7 Q. Do you know any of the parts of their work?

8 A. I couldn't tell you off the top of my head, no.

9 Q. Okay.

10 A. Except that was kind of the final -- that was
11 the overall conclusion.

12 Q. That was the overall conclusion.

13 But the reason I focused in on that was you
14 raised the issue of whether to change the tobacco.
15 Certainly the possibility of changing tobacco was one
16 of the very things that the National Cancer Institute
17 focused on in the context of that work; right?

18 A. Well I think your question was in dealing with
19 my patients and -- and their --

20 Q. My question was directed to --

21 A. The question you asked earlier --

22 MR. BERNICK: Your Honor -- Your Honor --

23 THE COURT: We cannot have two people
24 talking at one time. I realize we have two
25 reporters, but it doesn't work that way, gentlemen.

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1 So if you'd please talk one at a time. Allow the
2 witness to answer the question, please.

3 A. I think the question was what I do with my
4 patients, what they assume has happened to the
5 cigarettes. If they have a Marlboro Red and a -- and
6 a Marlboro Light, one of the assumptions that they
7 have is that something has been done to the tobacco
8 that's different in the Marlboro Light compared to
9 the Marlboro Red. That's in today's contemporary
10 time, not 28 years ago. That's right here -- this
11 is -- this is last week. This is what they think.

12 Q. My question really was: Wasn't the specific
13 focus of the Tobacco Working Group to see whether in
14 fact you could change tobacco, the tobacco itself?
15 Apart from these other changes, the tobacco itself,
16 wasn't that part of the focus of the work they did?

17 MR. CIRESI: Objection to the form of the

18 question and the scope.

19 THE COURT: You may answer that.

20 A. Work -- I --

21 You mentioned working group. See, I know there
22 are different working groups. But they did a lot of
23 different things, all of them. There was a lot of
24 work going on with this group over a long period of
25 time. So if you have something that you can give me

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1 that I can look at, I'll be glad to try to -- try to
2 help with it, but I cannot recall all those details.

3 Q. Have you read any of the reports that came out
4 of the Tobacco Working Group of the National Cancer
5 Institute? Have you read any --

6 A. I read some of those, but I do not recall which
7 ones or how much of each one I read. I read a lot of
8 things over the last year and a half, and I -- and
9 maybe even before then, so I --

10 Q. Before you came and testified, did you focus on
11 those in particular, or --

12 A. No, not -- not -- no.

13 Q. What about all the work that the companies did
14 internally, research work internally on changing
15 tobacco composition, did you come to learn about the
16 work that had been done internally over the years to
17 change tobacco composition?

18 MR. CIRESI: Again, Your Honor, objection
19 to the scope. It's the subject of another witness.

20 A. I saw documents that deal with these things,
21 but, you know, this is -- this really is the area of
22 another person to deal with this, another expert in
23 this -- in this as far as design of the cigarettes
24 and what happens when you add ammonia, what are the
25 specific things that happen. That's -- that's under

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1 the purview of someone else.

2 Q. Well the reason I asked is you showed the jury a
3 number of internal research documents that had been
4 provided to you in connection with this case.

5 A. Uh-huh.

6 Q. And all that I'm asking you is were you provided
7 and did you review the internal research documents
8 which show the extent and scope of the effort in
9 years of research that was dedicated by the tobacco
10 companies to try to figure out the way to change the
11 tobacco? Did you look at those documents or not?

12 MR. CIRESI: I'm going to object to the
13 form of the question, and also it's repetitious, and
14 the scope.

15 THE COURT: Objection sustained.

16 BY MR. BERNICK:

17 Q. Dr. Hurt, separate and apart from trying to
18 change the tobacco, isn't it also true that efforts
19 were made to try to develop whole new kinds of
20 alternative smoking devices? Isn't that true?

21 MR. CIRESI: Your Honor, I'm going to
22 object to the scope of the question.

23 THE COURT: Could you be a little more
24 specific what you're talking about, counsel?

25 MR. BERNICK: Sure.

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1 BY MR. BERNICK:

2 Q. You showed the jury exhibit -- Plaintiffs'
3 Exhibit 11938, at volume three, tab 104.

4 A. Okay.

5 Q. Do you have that in front of you?

6 A. I do.

7 Q. And I think you showed --

8 One of the things that you showed the jury
9 was -- woops. Got the wrong one -- this statement
10 here, remember that one? This is a 1962 document
11 that was drafted by people working for my client, the
12 British-American Tobacco Company; correct?

13 A. It is a B.A.T document, yes.

14 Q. Okay. And this one says, "As a result of these
15 various researches, we now possess a knowledge of the
16 effects of nicotine far more extensive than exists in
17 the published scientific literature." Do you see
18 that?

19 A. That's correct.

20 Q. And that's the one that you -- one of the
21 statements that you directed the jury to. Do you
22 recall?

23 A. Yes.

24 Q. Did you ever take -- ever learn about the
25 assessment that was reached of that research by

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1900

1 outside scientists?

2 A. The project meaning which one of these? There
3 were several projects in here as far as the projects
4 that are listed in this whole report, MAD HATTER, you
5 know, I, II, III --

6 Q. Right.

7 A. -- and so on. HIPPO I.

8 Q. Right.

9 A. So which one are you talking about?

10 Q. Any of them.

11 A. I think there was some things published, but I
12 couldn't tell you from which one of these there were.

13 Q. Okay. Maybe we'll come back to that a little
14 bit later on.

15 A. Okay.

16 Q. What I want to focus you on is the statement
17 that appears at page 12, right here. "It will be
18 only too obvious that our information is still
19 fragmentary, and this is the reason for proposing the
20 work on the effects of nicotine should be continued
21 after a further contract HIPPO II." And then it goes
22 on to say, "We have considered very carefully whether
23 we have enough basis to make a first attempt at an
24 alternative smoking device, the Project ARIEL, and I
25 think that on balance this is so."

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1 Did you learn --

2 Did you look into the fact that the motive for
3 the work that's being reported here was in fact to
4 develop an alternative smoking device that would be a
5 safer device, would pose less risk to the smoker?
6 Did you learn that?

7 A. Well germane to what I'm talking about, which is
8 nicotine addiction, that device is a -- is a
9 nicotine-delivery device. That's what it is. It's
10 not a smoking device as described in -- in these --
11 in these papers. It's a nicotine-delivery device.
12 It's a drug-delivery device.

13 MR. BERNICK: I move to strike as not being
14 responsive, Your Honor.

15 THE COURT: Well the answer will stand.

16 Q. Did you learn about the Project ARIEL and that
17 it was a project to develop a whole new smoking
18 device that would provide less risk to the smoker?

19 A. What I learned was it was a -- a look-alike, if
20 you will, cigarette that delivered nicotine. It was
21 a nicotine-delivery device. I mean might as well
22 call it what it was. That's what it was.

23 Q. Okay. And did you learn that the purpose of
24 trying to develop that nicotine-delivery device was
25 in fact to respond to the health concerns that had

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1 been raised about conventional cigarettes? Did you
2 learn that?

3 A. It -- it may have been, but the problem was
4 regulatory stuff. If you have a delivery device for
5 a drug, then the FDA becomes the regulator of drug-
6 delivery devices.

7 Q. Well the FDA -- this is Britain. The FDA
8 doesn't act in Britain. My question to you is a
9 little bit different.

10 Was the purpose of developing Project ARIEL to
11 develop a device that would be responsive to the
12 health concerns that had been raised about
13 conventional cigarettes? Was that the purpose of the
14 project?

15 A. I'd have to look --

16 It's probably written right on these pages. If
17 you'll allow me a second, I'll look at them, if
18 that's written here as far as what Project ARIEL is
19 about. It's probably written as far as the -- what
20 it says it's -- it's going to do.

21 Q. Well was that your understanding?

22 A. My understanding was Project ARIEL, as well as
23 other nicotine-delivery devices that had been
24 proposed and developed over the years
25 internally -- and none of them really have been

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1 thoroughly tested or even marketed that well -- they
2 were nicotine-delivery devices. They weren't
3 cigarettes at all.

4 Q. Did you learn that the purpose was as I
5 described it? Tell me "yes" or "no."
6 A. Well --
7 MR. CIRESI: Your Honor, I'm going to
8 object.
9 THE COURT: Counsel --
10 MR. CIRESI: It's been asked and answered.
11 THE COURT: Just a moment. Just a moment,
12 please. Counsel, do not instruct the witness on how
13 to answer. Okay?
14 A. Just a moment.
15 "Code name ARIEL, this will be aimed at taking
16 the first steps toward an actual smoking device as an
17 alternative to the cigarette. The basis for this
18 work is provided by the results from above,
19 approximately one year, 12,500 pounds."
20 Q. Okay.
21 A. That's what it says.
22 Q. Now --
23 A. And that's what the object is.
24 Q. That's what the object is.
25 Now did ARIEL ever manage to succeed? Did it

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1 ever become commercialized?
2 A. I don't -- I -- I couldn't go buy one of them if
3 I wanted to, I don't think.
4 Q. Okay. Did you learn of other efforts that had
5 been undertaken by the tobacco industry to develop
6 other alternative devices?
7 MR. CIRESI: Objection, relevance.
8 THE COURT: No, you may answer that.
9 A. I have seen reports of other devices from more
10 than just one company, but again, they -- they're
11 drug-delivery devices is what they are.
12 Q. And as you learned about those reports, did you
13 learn about a product called Premier?
14 A. Yes.
15 Q. And Premier was a product that was developed by
16 Reynolds; was it not?
17 A. R. J. Reynolds, yes.
18 Q. Okay. And is it a fact that this was a product
19 that was test marketed in 1988?
20 A. It's been a few years ago. I can't remember the
21 exact date.
22 Q. And -- and that the effort that was behind
23 bringing project -- or bringing the Premier product
24 to market for test purposes was an eight-year effort
25 that resulted in over 40 patents and about a seven

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1 hundred page monograph of testing, do you remember
2 that?
3 MR. CIRESI: Your Honor, I'm going to
4 object to the form of the question. It's constant
5 testifying.
6 THE COURT: The objection is sustained.
7 BY MR. BERNICK:
8 Q. Well, did you learn that the Premier product had

9 been covered in a monograph reciting testing that
10 extended to over seven hundred pages?
11 MR. CIRESI: Your Honor, again I'm going to
12 object to the form and to the scope. It's outside
13 the scope of direct of this witness.
14 THE COURT: The objection is sustained.
15 BY MR. BERNICK:
16 Q. Dr. Hurt, did you come to the conclusion with
17 regard to the Premier product that in fact Premier
18 product was a product that --
19 A. Was a what?
20 Q. I'm sorry. That Premier in fact was a product
21 that avoids large number of things that are produced
22 in tobacco, whether it's in reconstituted cigarettes
23 or whatever form it is in, whatever -- whatever it is
24 that is burned?
25 MR. CIRESI: Your Honor, again I'm going to
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1 object, it's outside the scope of direct.
2 THE COURT: You may answer that.
3 A. I guess I'd just like to see what you're reading
4 from so I can know what -- what document you're
5 talking about.
6 Q. Let me put it to you simply. Have you come to
7 the conclusion after you learned about the Premier
8 product that it would have been safer to pursue that
9 type of technology?
10 A. Premier was a drug-delivery device. That's what
11 it is. The little pellets of glycerol that had
12 nicotine contained in them, when heated up, delivered
13 nicotine. It was an euphemism for a cigarette. It
14 wasn't a cigarette at all, it was a nicotine-delivery
15 device plain and simple.
16 MR. BERNICK: Your Honor, I move to strike
17 as non-responsive.
18 THE COURT: I'll let the answer stand.
19 Q. Haven't you reached the opinion that the Premier
20 technology was a safer technology?
21 A. That hasn't been proven at all.
22 Q. Did you reach the opinion that the technology
23 was a safer technology?
24 MR. CIRESI: Your Honor, asked and
25 answered. It's also outside the scope.
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1 THE COURT: It's been asked and answered,
2 counsel.
3 Q. In fact, Premier did not succeed in the market,
4 in the test marketplace; did it?
5 MR. CIRESI: Your Honor, objection, outside
6 the scope.
7 THE COURT: You can answer that if you
8 know.
9 A. If -- if "the test market" means that I can't go
10 buy a package of Premier because it failed in the
11 market, I can't go buy a package of Premier anyplace
12 that I know of, if that's what -- what the question
13 is.

14 Q. And isn't it a fact that the AMA actually
15 opposed the introduction of this product that was
16 designed to reduce deliveries to the smoker?
17 MR. CIRESI: Objection to the form of the
18 question. Counsel is again testifying.

19 THE COURT: Okay, rephrase the question,
20 please.

21 BY MR. BERNICK:

22 Q. You're a member of the American Medical
23 Association; are you not?

24 A. Yes.

25 Q. Isn't it a fact that the AMA took the position
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1 that the product should not in fact be marketed?

2 A. I'd have to look and -- look back at the policy
3 of the AMA -- the policies that are published by the
4 House of Delegates of the AMA. There are many of
5 those.

6 This is 10 years ago. If you have something
7 that refers to that, I could confirm whether or not
8 they did.

9 Q. Wasn't that also the position taken by the
10 Minnesota Department of Health, that the product
11 shouldn't be marketed?

12 A. I'd have to say the same thing, I -- if -- I'm
13 not in the Minnesota Department of Health and so I
14 may or may not know about the policies that they
15 might have.

16 Q. I'm just asking. Maybe you don't know the
17 answer then. Has the Minnesota Department of Health
18 ever endorsed efforts to produce a lower risk
19 cigarette?

20 A. I honestly don't know.

21 Q. Have you ever in writing spoken out and endorsed
22 the idea of continuing to work for a lower risk
23 cigarette? Have you ever done that?

24 A. I can't recall doing that, but -- there's been a
25 lot of things we've written over the years, but I

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1 can't recall ever writing that, that there is --
2 there is a way of doing that. If I have, maybe it's
3 just something I don't recall. But I don't recall
4 that.

5 Q. Have you taken a look at the Eclipse cigarette
6 that's now being test marketed?

7 A. Uh-huh. Yes, I have.

8 Q. Okay.

9 A. It's a drug-delivery device just like the other
10 ones.

11 Q. But you believe that all cigarettes are drug-
12 delivery devices; correct?

13 A. You're right.

14 Q. Okay. So let's now talk about risk. Have you
15 taken a look at the question of whether Eclipse might
16 be a lower risk product?

17 MR. CIRESI: Your Honor, again it's outside
18 the scope of direct.

19 MR. BERNICK: Your Honor, he talked
20 extensively about low delivery cigarettes and whether
21 they really were a benefit to the consumer, and we're
22 pursuing exactly the same subject.

23 THE COURT: You may answer, if you know.

24 A. I think it's yet to be proven whether or not
25 that device will do what it claims to have done. I

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1 mean I -- it --

2 We don't have a long-enough history with that
3 device and I don't know all of the work that's been
4 done internally with that device to prove it to be
5 safer. I mean I -- I've seen documents, but I do not
6 know all of them.

7 Q. Okay. Well certainly if it were a lower risk --

8 MR. CIRESI: Excuse me.

9 A. -- product --

10 MR. CIRESI: Excuse me, Your Honor. These
11 documents were not produced, post-1994. Line of
12 questioning is inappropriate.

13 MR. BERNICK: I object to that.

14 THE COURT: The objection is sustained.

15 It's post-'94 non-produced documents. Objection
16 sustained.

17 MR. BERNICK: Okay. I'm -- I'm really --
18 I'll rephrase my question, ask for a different source
19 of information, Your Honor. I'm really asking about
20 his own experience in knowing about Eclipse. That's
21 what I'm trying to pursue with the question.

22 THE COURT: That was not your question.

23 MR. BERNICK: I understand, and I will try
24 to rephrase my question.

25 BY MR. BERNICK:

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1 Q. Eclipse has been described in publications; has
2 it not?

3 A. Yes.

4 Q. I'm sorry?

5 A. It has, yes.

6 Q. Yeah. In fact there's been discussion in your
7 examination about Dr. Hoffmann. Do you recall Dr.
8 Hoffmann?

9 A. There are a lot of Dr. Hoffmanns. Do you have a
10 first name?

11 Q. Okay. A Dr. Hoffmann is in fact one of the
12 authorities on cigarette design; is he not?

13 A. There are a lot of Dr. Hoffmanns.

14 Q. Okay. Dietrich Hoffmann.

15 A. Dietrich, yes, I remember.

16 Q. He's a pretty well established authority in the
17 area of cigarette design; is he not?

18 A. He's written a lot on that, yes.

19 Q. Okay. If you could take a look -- I will
20 provide it to you. It's Exhibit 18952. It has been
21 disclosed, and I would tender up a copy to you.

22 MR. BERNICK: Here, Mike. Here you go.

23 (Document handed to Mr. Ciresi.)

24 Q. Is that an article that has been published by
25 Dietrich Hoffmann?

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1 A. Yes, in the Journal of Toxicology and
2 Environmental Health, 1997.

3 Q. Okay. Is that a peer-reviewed journal?

4 A. Yes.

5 Q. Okay. Was he an authority in his field?

6 A. He's written a lot, yes.

7 MR. BERNICK: Okay. We offer it. Learned
8 treatise.

9 MR. CIRESI: No objection under 803(18).

10 THE COURT: It will be admitted under 803.
11 BY MR. BERNICK:

12 Q. Now if you came to view, Dr. Hurt, that there
13 was another product or another device, as you would
14 put it, on the marketplace that might provide less
15 risk to your patients, would you feel it appropriate
16 to at least tell them of that as one of the options
17 that they could pursue, recognizing that your
18 overwhelming advice would be not to smoke at all, but
19 would you at least let them know that there's an
20 alternative out there?

21 A. No. Tell you why if you want me to.

22 Q. Okay. So even if you concluded on the basis of
23 this piece or some other piece of information,
24 published information, that Eclipse was a lower
25 delivery product and in fact was a lower risk

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1 product, that's not something that would be
2 appropriate in your medical judgment to share with
3 your -- with your patients; correct?

4 A. I would have to be assured before I made a
5 recommendation that the product was safe and
6 effective to do what it says it's going to do, just
7 like any other drug. If I were to recommend nicotine
8 patches to a patient, nicotine nasal spray to a
9 patient, there is a very long and arduous path that
10 drug companies have to do to prove a device or a
11 medicine is safe and effective.

12 Now if I were assured by those sorts of
13 standards that Eclipse was safe and effective, then I
14 might consider it. But I don't think we've had
15 enough evidence yet. One article does not make
16 cumulative medical literature to make those kind of
17 conclusions.

18 Q. Okay.

19 A. So I don't -- I don't know what the end result
20 is going to be with the experience with Eclipse at
21 all.

22 Q. With all respect, I'm asking really a question
23 way before we get to that end. It's just a much more
24 specific question. My question is this: If you
25 concluded that a product might pose less risk, even

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1 though you don't know for a fact, but might pose less
2 risk, would it be appropriate to at least let your
3 patients know that that option was there, even if you
4 didn't know that in fact it was safe, would that
5 still be information that you would want to provide
6 to your patients?

7 MR. CIRESI: Objection to the form of the
8 question. It's compound, calls for speculation,
9 conjecture.

10 THE COURT: You may answer that if you
11 know.

12 A. Well we actually do that today, but we do it
13 with products that are nicotine-delivery products,
14 the nicotine nasal spray, the nicotine gum, the
15 nicotine patches. If a person comes and says I don't
16 think I can stop smoking and I think I want to
17 continue using nicotine, those have been proven to be
18 safe and effective. This one hasn't. It's --

19 It's a simple matter of proof. And so in that
20 situation I would say these are the alternatives, we
21 have patches, we have gum, we have nasal spray, we
22 have inhaler, and if you use the inhaler and you use
23 it for a long time, that is safer than smoking
24 cigarettes.

25 I cannot say that same thing about a device that

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1 delivers very high levels of carbon monoxide, which
2 Eclipse does.

3 Q. Okay. Dr. Hoffmann talks about a novel type of
4 smoking product that's been introduced on the test
5 market in 1996 under the name Eclipse in the United
6 States and then other names else somewhere, "To
7 effect a drastic reduction of the smoke yields of
8 toxic and carcinogenic agents, the R. J. Reynolds
9 Company has developed this new version of the type of
10 cigarette that heats tobacco rather than burns it."
11 Do you see that?

12 A. Yeah. And I've always been puzzled by the
13 anonymous behind it. I don't know what that means,
14 "Anonymous 1996."

15 Q. You see the statement, Dr. Hurt?

16 A. Pardon?

17 Q. You see the statement that appears before the
18 citation I just read?

19 A. Yeah, I see the statement.

20 Q. Okay.

21 A. But I don't know who to attribute it to since
22 it's anonymous.

23 Q. Right. In point of fact the concept would be,
24 when you burn tobacco, you create a wide array of
25 chemicals, some of which are known to be

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1 carcinogenic; correct?

2 A. I believe that, yes.

3 Q. Yes, I understand that that's what you testified
4 to. The concept here is if you heat tobacco rather

5 than burn it, you might be able to reduce some of
6 that output of those types of chemicals. That's the
7 basic concept; is it not?
8 A. That's what it says.
9 Q. Okay. And in point of fact Dr. Hoffmann says --
10 and there's a prefatory statement, talks about the
11 nature of the data-gathering process and then goes on
12 to say, "Nevertheless, there is still substantial
13 reduction of carcinogenic agents in the sidestream
14 (airstream) of the Eclipse by comparison to the smoke
15 of low-yield filter cigarettes; results from
16 short-term assays for general toxicity also indicate
17 that the carcinogenic potential of the smoke of
18 Eclipse is significantly lower than that from
19 low-yield filter cigarettes." Do you see that
20 statement?
21 A. Yes, I do.
22 Q. Okay. So my question to you is real simple:
23 Have you gone through the process of looking into
24 Eclipse to find out how good the data is on whether
25 in fact it has a reduced delivery of these types of

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1 chemicals and therefore might be in fact less risky?
2 Have you done that investigation?

3 MR. CIRESI: Your Honor, we're going to
4 object to this line of questioning. We don't have
5 the documents from the defendants with respect to
6 their own knowledge, and it's also outside the scope
7 of this witness's testimony.

8 THE COURT: The objection is sustained.

9 Q. Do any of your patients use Eclipse?

10 A. I don't recall any reporting that they have.

11 It's not available in Rochester, to my
12 knowledge.

13 Q. I'm going to finally come back to pH for just a
14 moment. I apologize for the diagram that I drew the
15 other day.

16 I want to talk a little bit about a couple of
17 the things you said concerning some of the data that
18 relates to this. First of all, do you have the --
19 let me get the 1979 Surgeon General's report. I
20 don't believe this is in evidence yet. Is it,
21 Michele?

22 MR. BERNICK: We would offer GJ113. It's
23 the 1979 Surgeon General's report.

24 MR. CIRESI: No objection, Your Honor.

25 THE COURT: Court will receive GJ113.

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1918

1 Q. It's a thick document, Dr. Hurt, so I've marked
2 a couple pages that I'm going to be showing you.

3 1979, Surgeon General writes a report, the
4 report in fact deals with the subject of absorption
5 of nicotine and pH; does it not?

6 MR. CIRESI: Excuse me. May we have the
7 page, Your Honor?

8 MR. BERNICK: Yes, I'm sorry. It's page
9 14-85.

10 Q. Do you see that page there? Are you -- are you
11 with us on 14-85?
12 A. Yes.
13 Q. Okay. And in fact if you flip the page, there
14 is that chart there, that pH chart that's very
15 similar to the chart that appeared in the company
16 document which then we blew up. Do you remember
17 that?
18 A. Right. Yes.
19 Q. Okay. And in fact the Surgeon General in 1979
20 was discussing in his report to Congress about
21 differences in nicotine absorption largely determined
22 by the pH of smoke. Do you see that?
23 A. Yes.
24 Q. And he says that there are striking differences
25 in nicotine absorption determined largely by pH;

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1 correct?
2 A. Yes.
3 Q. That would be consistent with your own view;
4 would it not?
5 A. Yes.
6 Q. Okay. And if you come on down, "The basic,
7 lipid-soluble, uncharged nicotine is in the form
8 absorbed by the oral mucosa." That's in the mouth;
9 right?
10 A. That would be in the mouth, yes.
11 Q. "A contributing factor to its absorption is that
12 nicotine, as the free base, is volatile, which allows
13 for rapid absorption from the gas phase."
14 That's again something that you've discussed
15 with us here in court and the Surgeon General is
16 talking about in 1979; true?
17 A. I would have talked just briefly about the gas
18 phase, and I think there is another expert that's
19 really going to get into the gas phase and all of
20 those details.
21 Q. Okay. You were talking about the absorption
22 aspect, the absorption aspect of free nicotine.
23 A. Is pH dependent, yes.
24 Q. Okay. And that's again what he's talking about
25 in the reports; correct? Right here.

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1 A. That's part of what they say, yes.
2 Q. Okay. But then it turns out that later on in
3 the report, says -- if you take a look at cigarettes
4 that are actually sold, it says, "Since cigarettes in
5 the United States and in most foreign countries are
6 made of flue-cured tobacco, are blends with
7 flue-cured tobacco as a major ingredient or, in a few
8 cases, are blends with Turkish tobacco, the pH of the
9 resulting mainstream smoke is below 6.5 and thus
10 essentially contains only protonated nicotine."
11 Protonated would be not the free stuff, it would
12 be the bound nicotine; correct?
13 A. That's correct.
14 Q. And that's the statement that he made in 1979,

15 and that's the statement that I take it you would
16 agree with today.
17 A. Yeah. If it's a pH of 6.5, most of it would be
18 in the protonated form.
19 Q. Okay. And in point of fact, we then get to a
20 part of the report that I want to focus very
21 specifically on, which is --
22 Well what would happen if you moved the pH up?
23 What would happen if you started to really boost that
24 pH up and going over here?
25 MR. CIRESI: May we have the page, Your
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1 Honor?
2 MR. BERNICK: Oh, sorry. I think the
3 witness has it. It is 14-87. As a matter of fact, I
4 can show it in this chart here.
5 Q. He's asking, well, what would happen if we now
6 start to move way over here. There's a citation to
7 Armitage, that's the same Dr. Armitage we've been
8 talking about for a couple of days now; correct?
9 A. Yes. I think that's the same citation,
10 actually.
11 Q. Okay. And what he cites there is that "Armitage
12 recently studied the effects of nicotine absorption
13 in humans, comparing nicotine levels obtained in
14 arterial blood. They found that arterial blood
15 plasma concentrations of nicotine were comparable;
16 however, the level rose more slowly in the smokers of
17 small cigars. This may be due to a greater amount of
18 the small cigar smoke being absorbed via the oral
19 cavity as compared to cigarette smoke, which is
20 primarily absorbed via the lung."
21 What Armitage had found as reported by the
22 Surgeon General is that in small cigars, which are
23 higher in pH, over here, their nicotine tends to be
24 absorbed in the mouth; therefore, goes to the venous
25 system, the slower route, as opposed to going down
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1 into the lung where it's arterial, correct?
2 A. Only if they do it that way. If they inhale the
3 cigar smoke they'll have more rapid absorption
4 because there's more free base nicotine the higher
5 the pH.
6 Q. Okay.
7 A. So people who smoke cigars and small cigars,
8 contrary to popular belief, often to inhale that
9 smoke.
10 Q. Okay. So what he's -- what he's saying is that
11 these cigar smokers in this case are inhalers or not
12 inhalers?
13 A. Say again?
14 Q. As he's reciting it here, are the cigar smokers
15 inhalers or non-inhalers?
16 A. I'd have to read this. I haven't seen this in a
17 long time.
18 Q. So your feeling would be and what you predict is
19 that as the pH increases, it will still -- the

20 nicotine will still be absorbed in the lung just like
21 it is at commercial levels; is that what you're
22 saying to the jury?
23 A. I don't think so. I -- you've kind of lost me
24 in some of your train here.
25 Q. Your theory -- your theory of this case is that
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1923

1 as nicotine pH gets boosted, the lung absorption
2 increases; right?
3 A. The higher the concentration free base nicotine,
4 the more rapid it goes across the membrane and the
5 higher the concentration in the blood.
6 Q. Right. And that's your one, two, three. Most
7 nicotine is in the lung, has to be free; if it's
8 free, it's a direct route to the brain. And your
9 theory is that if you increase the amount of free
10 nicotine, more of it gets absorbed down here and
11 takes the highway to the brain; right?
12 A. The more rapidly you get across the membrane in
13 the lungs, the more rapid -- more rapid it can go to
14 the brain.
15 Q. Okay. Now I asked you last time about studies
16 that involved inhalers. Do you recall that?
17 A. Yes.
18 Q. Okay. And the nicotine inhalers that we're
19 talking about are inhalers, as you indicated in your
20 testimony last Friday, that tend to be more basic,
21 they're more on the free nicotine side; correct?
22 A. I'd have to look at which inhaler you're talking
23 about. There are probably more than one product out
24 there. The one that I'm familiar with is -- is
25 manufactured by Kabi Pharmaceuticals in -- in Sweden,
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1 and that is the absorption takes place through the
2 mouth and about right there (indicating).
3 Q. Okay. Now with those inhalers, if they are in
4 fact more of the free base nicotine, given your
5 theory, you would expect that if they were inhaled --
6 A. Oh, but they're not. That's the whole point.
7 The whole point is they're not inhaled. They don't
8 get past about right here (gesturing). That's --
9 Q. Your statement is -- let's just capture this and
10 make it real clear -- that the inhalers --
11 "Inhale," is it l-o-r or l-e-r? L-e-r.
12 -- inhalers are not inhaled into the lung.
13 A. The inhaler that I'm talking about is the one
14 we've worked with that will be released on the market
15 this year as a pharmaceutical product. Now I don't
16 know whether other inhalers -- there may be other
17 inhalers that other people have developed. I'm
18 talking about the one that's going to be called
19 Nicotrol inhaler. It will be marked by SmithKline
20 Beacham. That's the one I'm familiar with.
21 Q. Okay. In point of fact, the research that's
22 been done, Dr. Hurt, has actually involved taking
23 inhalers, nicotine inhalers, and telling the people
24 who are in the experiment that they should inhale

25 into the lung so that it can be determined where that
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1925

1 nicotine goes. Isn't that the work that's been done
2 in this area?

3 MR. CIRESI: Objection, form of the
4 question.

5 THE COURT: Sustained.

6 Q. Isn't it a fact, Dr. Hurt, that the experiments
7 that have been done on inhalers involve people not
8 just taking it in their mouths, but trying to take it
9 into their lungs? Isn't that a fact?

10 MR. CIRESI: Objection, form of the
11 question.

12 THE COURT: The objection is sustained,
13 counsel.

14 Q. Well you just tell me one way or another, Dr.
15 Hurt, whether you know whether the subjects in those
16 studies are in fact inhaling it into their lungs.

17 MR. CIRESI: Objection, asked and answered.

18 THE COURT: Sustained.

19 Q. Have you reviewed any of the studies, Dr. Hurt,
20 that we're talking about here?

21 A. I've reviewed the internal documents from the
22 pharmaceutical company that developed it.

23 Q. Have you read the studies that have been done on
24 nicotine inhalers which show where the nicotine
25 in -- the free base nicotine goes?

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1 A. My knowledge is only of one inhaler we're
2 talking about. Now maybe if you have knowledge of
3 other inhalers, that's fine, but the only one I know
4 of is the one we've worked with in our research
5 program, the Nicotrol inhaler.

6 Q. That's made by -- made by the Pharmacia Upjohn
7 Company?

8 A. That's it, yeah.

9 Q. Okay. I'm asking you: Have you taken a look at
10 the studies that have been put together by Pharmacia
11 for its Nicotrol inhaler?

12 A. When you have -- when you're an investigator on
13 a study, you receive an investigator's brochure that
14 has a lot of information from within the company.
15 They provide you with everything that they know about
16 their product. Now if you have a study you want me
17 to look at, why don't we just look at it? I mean
18 there's obviously one you have in front of you and
19 I'd be glad to look at it. But we're provided with
20 an investigator's brochure, which is about this
21 thick, which has all of the company's information
22 about that product, all the animal experiments, all
23 of the other adverse events, potential adverse events
24 before we do that.

25 Q. Okay.

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1 A. That's what I've seen.
2 Q. That's fine.
3 A. If there's an article you want me to look at it,
4 I can look at it.
5 Q. Volume two, tab 47, GK10105.
6 A. Tab number?
7 Q. Forty-seven.
8 MR. CIRESI: Your Honor, may I have the GK
9 number again?
10 MR. BERNICK: It's 101015. And then I'm --
11 Your Honor, may I approach the witness?
12 Q. I'm going to hand you another study that I would
13 also ask you about.
14 MR. BERNICK: This is for the court. This
15 is the one that I gave you this morning, the
16 Bergstrom study.
17 Q. Do you see that Exhibit 101015 is a study done
18 on Upjohn -- Pharmacia Upjohn inhaler, Nicotrol?
19 A. That's what it says, yes.
20 Q. And it's a clinical pharmacology study?
21 A. That's what it says, yes.
22 Q. Okay. And do you see that there is a cover
23 sheet -- you know much more about this than I do, but
24 this apparently is a study that's been submitted to
25 the FDA; correct?

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1 A. Yeah. There's a thing called the new drug
2 administration where they have a very large file
3 there, so this could be part of that.
4 Q. Okay. And this is in fact a study of the
5 Pharmacia Upjohn inhaler Nicotrol that we have just
6 been referring to in your prior testimony?
7 A. Yes. That's what it says.
8 Q. Okay. And these are the kinds of studies that
9 are done in connection with a new drug application;
10 that is, pharmacology studies?
11 A. These are part of their safety as well as
12 efficacy studies. These would be part of them, yes.
13 Q. And these are the kind of studies, I think you
14 said, that you would ordinarily become familiar with
15 in the course of your work dealing with
16 nicotine-delivery devices; correct?
17 A. Correct, yes.
18 Q. Okay.

19 MR. BERNICK: We would offer it, Your
20 Honor.

21 MR. CIRESI: We object. There's no basis
22 to know whether this is complete. It's in Pharmacia.
23 It's hearsay.

24 THE COURT: Doctor, are you familiar with
25 this?

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1 THE WITNESS: Well as I said earlier, we
2 get a big thick book that is an investigator's
3 manual.

4 MR. CIRESI: Have you ever seen this?

5 MR. BERNICK: Excuse me. Excuse me.

6 THE COURT: Counsel, just a moment, please.
7 MR. CIRESI: Sorry.
8 THE WITNESS: I don't know that I've seen
9 this one, no. There's a lot of information that
10 comes with all of the drugs we do.

11 MR. BERNICK: Okay.

12 BY MR. BERNICK:

13 Q. And is it typical that when you get a -- when
14 you get a new drug that's on the market, or
15 particularly an inhaler, there's a particular part of
16 the analysis process that deals with pharmacology;
17 that is, where the drug goes in the body as part of
18 its delivery, distribution and metabolism; correct?

19 A. Well the first thing that we look for in any of
20 these studies is safety. We want to make sure
21 whatever we're doing with the potential patients is
22 safe. That's where -- that's where we go to first.

23 Q. I understand that, but my question to you is a
24 little bit different. I'm asking you whether as part
25 of the new drug application process, that you do

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1 pharmacology studies.

2 A. They have -- they have to do pharmacologic
3 studies, yes.

4 Q. So this is -- this is a study that you have
5 before you that doesn't address the ultimate question
6 of safety but that deals with one aspect of how the
7 drug behaves, which is where it goes; right?

8 A. If it has only -- only to do with pharmacology,
9 that's what it would be.

10 Q. Well take a look at the table of contents. Is
11 that what it deals with?

12 A. Basically. There is --
13 That's about all I see here, is pharmacology
14 type of things, yes.

15 Q. Okay. And -- and is this -- is this kind of
16 study the typical kind of study that's done in
17 connection with the submission of a new drug
18 application; that is, a pharmacology study, in your
19 experience?

20 A. Yes.

21 MR. BERNICK: Okay. We offer it, Your
22 Honor.

23 MR. CIRESI: Objection, it's incomplete.

24 THE COURT: As I understand it, you haven't
25 seen that; is that correct?

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CROSS-EXAMINATION - DR. RICHARD HURT

1931

1 THE WITNESS: I don't recall seeing this
2 document, no.

3 THE COURT: Okay. The objection is
4 sustained.

5 BY MR. BERNICK:

6 Q. Let's take a look at the second document, the
7 published article. This is an article that is
8 published in Clinical Pharmacology and Therapeutics
9 in March of '95.

10 A. Okay.

11 Q. Is -- I mean you have to --
12 Is this in fact an article that was
13 published -- take a look at it -- in Clinical
14 Pharmacology and Therapeutics in March of '95?
15 A. Yes, it is. That's what it says.
16 Q. Okay. Is that a peer-reviewed journal?
17 A. It is.
18 Q. Okay. And these are people who are researchers
19 abroad; are they not? They're in Sweden?
20 A. Yes, from Upsala. Looks like all of them are
21 from Upsala.
22 Q. Okay. And this is a C14 tracer study. This is
23 a study that puts radiolabeling on chemicals and sees
24 where they go; correct?
25 A. Yeah. It's C11.

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1932

1 Q. Okay. And is that a technique that has been
2 known really for really quite a number of years,
3 decades, as a technique for determining the
4 distribution of the drug or a chemical that is
5 through C14 tag tracing?
6 A. Well C11 tracers, for this purpose.
7 Q. C11, right.
8 A. C14 has to do with the carbon aging of things.
9 Q. Right.
10 A. So C11 is -- is a way of doing it. I don't know
11 how far the technology goes.
12 Q. Fine.
13 A. I don't know how long it's been around.
14 Q. Okay. Is this -- is this --
15 Well is this publication a publication that
16 would be an authoritative and reliable source of
17 material if you were trying to understand the
18 distribution of nicotine from a Nicotrol inhaler,
19 which is the subject of the study?
20 A. That is the subject of the study. And I was
21 actually looking through this. There is another
22 study that -- that I'm more familiar with, it's not
23 by these authors, I guess I was thinking about when I
24 first saw this. So this is -- this is one that --
25 that reports on that, yes, as far as the -- where the

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1933

1 nicotine vapor would go.
2 Q. Okay. And if you were trying to understand
3 where the nicotine vapor goes, this would be a
4 reliable source of information on that subject, would
5 it not, within your field?
6 A. Yes, it would be.
7 MR. BERNICK: Okay. We would offer it,
8 Your Honor, learned treatise.
9 MR. CIRESI: We still don't know whether
10 the doctor's reviewed it, Your Honor.
11 THE COURT: Have you reviewed this?
12 THE WITNESS: I don't know that I've seen
13 this one. As I said, I've seen another one similar
14 to this. I think it was different authors, but I
15 couldn't -- I -- I would need to look this over

16 because it's not -- it's not real fresh in my memory.
17 If I have read this, it's been a while.
18 THE COURT: Well why don't we give you a
19 chance to look it over.
20 THE WITNESS: Okay.
21 THE COURT: Why don't we take a short
22 recess at this time.
23 THE CLERK: Court stands in recess.
24 (Recess taken.)
25 THE CLERK: All rise. Court is again in
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1934

1 session.
2 (Jury enters the courtroom.)
3 THE CLERK: Please be seated.
4 BY MR. BERNICK:
5 Q. Thank you, Your Honor.
6 Dr. Hurt, have you had an opportunity to review
7 the article?
8 A. I did.
9 Q. I apologize initially for the incomplete copy
10 and still for the quality of the last two pages. I
11 know that they are less than ideal.
12 A. Hard to read, but --
13 Q. Yes. But have you now had an opportunity to
14 read the article?
15 A. I have.
16 Q. Thank you.
17 MR. BERNICK: Your Honor, I believe that I
18 haven't offered this into evidence yet.
19 Q. Is this in fact an article that's been -- that's
20 been published by researchers regarding the Nicotrol
21 inhaler?
22 A. It has -- it is.
23 Q. Okay. And having read the article, I believe
24 you will recall that we broke on the question about
25 whether this is the type of -- this is an article
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1935

1 that you would consider to be a reliable source of
2 information if you were looking into the issue of
3 where nicotine from an inhaler goes. I think that
4 was the question I posed to you.
5 A. Yes. And this -- this is the -- as far as I
6 know, this is still the only inhaler that's on the
7 market. But it's a misnomer. It really is a puffer,
8 it's not an inhaler.
9 Q. A puffer then. Okay. They call it a nicotine
10 vapor inhaler, that's why --
11 A. I told them to name it something else, but
12 they're not going to do that.
13 Q. Okay. Would this then be an authoritative
14 source of information on the distribution of nicotine
15 from the puffer?
16 A. Right.
17 Q. Okay.
18 MR. BERNICK: We would offer it, Your
19 Honor, as a learned treatise.
20 MR. CIRESI: No objection under 103(18) ,

21 Your Honor.
22 THE COURT: Under what?
23 MR. BERNICK: Excuse me, 803(18). Sorry.
24 THE COURT: Court will receive it under
25 803(18).

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1936

1 BY MR. BERNICK:
2 Q. Now to go through it a little bit, we have
3 the title, and this is "Regional deposition of
4 inhaled C11-nicotine vapor in the human airway as
5 visualized by positron emission tomography," which I
6 think is called PET for short; correct?
7 A. PET scans, yes.
8 Q. And we see that if we focus in, it's from the
9 nicotine vapor inhaler; right?
10 A. That's correct.
11 Q. Okay. Now as I understand the technique, people
12 were given the inhaler, got a radioactive tracer on
13 the -- on the nicotine; right?
14 A. That's correct.
15 Q. So the idea is that what the scanning machine in
16 effect sees are the little particles of
17 radioactivity, the C11, that is attached to the
18 little particles of nicotine as they go through the
19 body.
20 A. That's basically it, yes.
21 Q. Okay. And that enables the people in the study
22 to not only visualize but to quantify the location of
23 nicotine in different parts of the body as it's
24 processed, metabolized, distributed, whatever;
25 correct?

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1937

1 A. Actually measures how much is left in the little
2 inhaler after they're through.
3 Q. And as I further understand it, that technology
4 has its limitations; does it not? And I think they
5 are -- they are explored in the article, and we'll
6 get to them in a minute. But the technology has
7 limitations; true?
8 A. That's correct. But it's probably the most
9 sophisticated one right now. PET scanning is not
10 available everywhere.
11 Q. Okay. Now when the experiment was done, there
12 were two inhalation techniques that were used -- I
13 think they're kind at the bottom of page 310 -- one
14 was the pulmonary mode, and there "The treatments
15 with the vapor inhaler were given in short sessions
16 with one vaporizor used over 5 minutes. In separate
17 experiments either of two inhalation techniques were
18 used: pulmonary and --
19 Is buccal or buccal?
20 A. Buccal.
21 Q. Buccal. And that's the mouth; right?
22 A. That's right.
23 Q. The "Pulmonary mode implies one deep inhalation
24 for 5 seconds with four inhalations per minute for a
25 total of 5 minutes (20 inhalations);" correct?

1938

1 A. That's what it says, yes.
2 Q. And the buccal is described on the next page,
3 "The buccal mode is more like the normal use of a
4 pipe. The subject sucks at the vapor inhaler, with
5 his mouth closed while breathing through the
6 nose...." That's a puff; right?
7 A. Correct.
8 Q. As opposed to an inhalation into the lung.
9 A. That's right.
10 Q. And in point of fact, the Nicotrol inhaler is
11 designed to be used, really, in this mode; that is,
12 the buccal mode; correct?
13 A. Yes. And we'll get to the reason why in a
14 minute. But that's -- that's the way it's designed
15 to be used.
16 Q. Okay. Now in point of fact, after the
17 inhalation took place, measurements were taken, and
18 the article explains some of the limitations of the
19 data. But I think that --
20 You can go to one of two places. Let's go to
21 the summary first and then to the paragraph where the
22 results are described. The summary says as
23 follows -- very hard to get onto the screen,
24 little --
25 "The deposition of C11 nicotine in the

1939

1 respiratory tract from the nicotine vapor inhaler was
2 studied by means of positron emission tomography in
3 an intrasubject comparison of six healthy workers
4 using two modes of inhalation: one with shallow,
5 frequent inhalation (the 'buccal mode') and one with
6 deep inhalation (the 'pulmonary mode'). An average
7 of 15 percent of the radioactivity was released from
8 the vapor inhaler after five minutes of inhalation."
9 Now it goes on to talk about where it goes;
10 right?
11 A. Correct.
12 Q. "Approximately 45 percent of the dose released
13 was found in the oral cavity. A significant amount
14 of radioactivity, 10 percent, was observed in the
15 esophagus, suggesting transfer of a major fraction of
16 the dose to the stomach. Only a minor fraction was
17 found in the lungs, followed by two percent in the
18 bronchi and one percent in the trachea. The
19 deposition in the oral cavity closely followed a
20 linear pattern during the five minutes of inhalation
21 and was followed by rapid elimination from the oral
22 cavity with an average half-life of 18 minutes."
23 And then it goes on to talk about how -- how
24 long the material remained elsewhere. But the basic
25 numbers that we're working with were 45 percent was

1940

1 in the mouth, then you've got ten percent in the

2 esophagus. Which is not the same thing as the
3 trachea. The esophagus goes down to your stomach,
4 not the lung.
5 A. That's correct.
6 Q. So we'll have ten percent over here to the side,
7 and then suggesting a transfer of a major fraction of
8 the dose to the stomach. So the thinking was that
9 when the material came down, it came down through the
10 esophagus to the stomach, and the suggestion was that
11 because there were traces of it in the esophagus, a
12 lot of it had gone to the stomach. Fair enough?
13 A. Right.
14 Q. Okay. And only a minor fraction was found in
15 the lungs, followed by two percent in the bronchi and
16 one percent in the trachea, which is you have -- what
17 is it? -- five percent down here, then in the bronchi
18 we have two percent and in the trachea one percent;
19 right?
20 A. That's what it says, yeah.
21 Q. Five, two and one?
22 A. Uh-huh.
23 Q. Okay. And essentially what the study then
24 concludes is that even when you have the puffing
25 technique -- not the puffing, but the inhalation

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CROSS-EXAMINATION - DR. RICHARD HURT

1941

1 pattern, most of the nicotine still --
2 And this is now the higher pH nicotine; right?
3 A. It's mostly free base, yes.
4 Q. Most of it is still absorbed in the mouth --
5 A. Uh-huh.
6 Q. -- rather than being absorbed in the lung; true?
7 A. That's what it says, right.
8 Q. Okay. Now do you know whether it is this kind
9 of data that led Dr. Benowitz to take the view and
10 the position that when you increase the pH of
11 cigarette smoke, you're probably going to only
12 increase the impact in the mouth, you are not going
13 to significantly change bioavailability in the lungs,
14 do you know whether this was the data that supported
15 Dr. Benowitz's conclusion about the effect of
16 increasing pH in cigarette smoke?

17 MR. CIRESI: Objection, misstatement of the
18 Benowitz article, and calls for a conclusion on the
19 part of this witness based on speculation.

20 THE COURT: You may answer if you know the
21 answer.

22 A. I don't know if he used this as a basis of -- of
23 that article or not. I'd have to look back at the
24 article.

25 I recall that you gave me two Benowitz articles;

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CROSS-EXAMINATION - DR. RICHARD HURT

1942

1 correct?

2 Q. I gave you the statement -- I gave you a
3 Benowitz article on the absorption regardless of pH.

4 A. And what was the date of that?

5 Q. And that -- that was 19 -- that was 1988. And
6 then I gave you the Benowitz statement in Canada,

7 which was nineteen ninety -- I think that was 1991.
8 A. Yeah. I don't think we really saw that whole
9 document of that --
10 Q. That was 1996, I think, March of 1996.
11 MR. CIRESI: That document was not
12 introduced into evidence.
13 MR. BERNICK: But the witness's testimony
14 concerning Dr. Benowitz's views did come forward
15 before this jury and is in evidence, Your Honor.
16 MR. CIRESI: Your Honor, I'm going to
17 object to counsel's statement.
18 THE COURT: The objection is sustained.
19 BY MR. BERNICK:
20 Q. Dr. Hurt, do you know whether this data in fact
21 was the basis of Dr. Benowitz's views?
22 A. This --
23 MR. CIRESI: Objection, asked and answered.
24 MR. BERNICK: I thought that was a
25 different question I put to him.
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1943
1 THE COURT: Seems like it was the same
2 question that was just asked. You can maybe rephrase
3 it, but --
4 MR. BERNICK: Yeah.
5 Q. Is this -- is this data -- let me just ask you
6 more generally. Is the data --
7 This is not the only study that's been done on
8 the distribution of nicotine -- higher pH nicotine
9 from inhalers, there are other studies as well;
10 right?
11 A. I think there's only two that I'm aware of, one
12 cited in here, which is a little earlier than this
13 one. But this one actually pre -- you know, this is
14 a long time after the '88 article by Benowitz. This
15 was not known at the time as the inhaler we're
16 talking about wasn't available. I'm not sure when
17 they started studying it, so --
18 Q. But bear with me. My question is: There is
19 this study and there are at least two other studies
20 that are out there.
21 A. I'm not aware of another one that is cited in
22 the back of this article.
23 Q. Okay.
24 A. And maybe there are more, but I couldn't make
25 out from the back of the article --

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1944
1 There's one reference, number nine, and I can't
2 make out if the other article is before that. I just
3 can't view the bottom of this. There are one or two
4 articles.
5 Q. There was another article also -- a study that
6 was also done on the Favor cigarette in 1987, similar
7 kind of study?
8 A. There were studies done on the Favor cigarette.
9 Q. Okay. Do you remember what the conclusion of
10 those studies was?
11 A. I can't -- I -- I really can't recall. It was

12 similar to this I would assume. Similar.
13 Q. In point of fact, isn't it true that all of the
14 studies that have been done using inhalers or
15 other -- the Favor cigarette, all of them basically
16 have concluded that the nicotine is for the most part
17 absorbed in the oral cavity?
18 A. There's no carrier. There's no vehicle to carry
19 the vaporized nicotine. That's the missing part of
20 the inhaler. It's not like the inhalers that you
21 puff on with asthma, it's not like that at all. I
22 mean everyone has that little notion that we're
23 talking about an inhaler that you press on it and it
24 gives a metered dose with the particles that goes
25 into the lung. There is a vapor, it is a little

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1945

1 puffer, and so there's no particle like tar or
2 glycerol or other things to carry the nicotine down
3 into the lungs, so quite natural, really, it stays
4 only from here up. That's as far as it goes.
5 Q. And in the cigarette smoke, isn't it a fact that
6 a portion of the free base nicotine, to the extent
7 that it exists in cigarette smoke, is in fact in the
8 vapor phase as opposed to the particulate phase?
9 A. It's in -- it's in an equilibrium, yes.
10 Q. Okay. And therefore to the extent we're talking
11 about vapor phase or gaseous nicotine, is the vapor
12 phase or gaseous nicotine also vapor phase nicotine
13 in these studies?
14 A. I don't know what you're pointing to.
15 Q. In this --
16 I mean these are vapor phase nicotine studies;
17 correct?
18 A. This is a nicotine vapor inhaler.
19 Q. Right.
20 A. It's a misnomer. It unfortunately -- it's like
21 the nicotine gum, the nicotine gum really wasn't a
22 gum. If you use it correctly, you don't chew it like
23 a gum. If you try to inhale this, it doesn't work.
24 That's what the study says. Even if you try to
25 inhale it, you can't get it in.

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1946

1 Q. Even if you try to inhale it, it's very, very
2 hard to get vapor phase nicotine into your lungs;
3 true?
4 A. There has to be a particle to get it down into
5 the lungs, right.
6 Q. So if we went back and talked about the 6.028
7 smoke coming down and that one percent of that smoke,
8 the one percent was the free nicotine, what portion
9 of that one percent is vapor phase and what portion
10 of that one percent is particulate?
11 MR. CIRESI: Objection, that's a subject
12 that was gone over last week. Attempting to go over
13 the same grounds.
14 THE COURT: This is repetitious, counsel.
15 MR. BERNICK: I'll try to pursue it one
16 further step so that I'm --

17 THE COURT: Don't --
18 MR. BERNICK: I'll ask another question.
19 THE COURT: Don't pursue the repetition,
20 counsel.
21 MR. BERNICK: Okay.
22 THE COURT: Ask something new, please.
23 MR. BERNICK: Fine. That's all I have this
24 afternoon, Your Honor.
25

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REDIRECT EXAMINATION - DR. RICHARD HURT

1947

1 REDIRECT EXAMINATION
2 BY MR. CIRESI:
3 Q. Good afternoon, doctor.
4 A. Hi.
5 Q. I'd like to first deal with the -- the process
6 of scientific evolution, if you will. We've heard a
7 lot about a few medical articles that were brought to
8 your attention. How many medical articles, roughly,
9 are produced in the literature just in this country
10 every year?
11 A. Oh, there are thousands.
12 Q. So over the last 40 years of time that we're
13 involved with in this case, there would be hundreds
14 of thousands if --
15 A. Oh, sure.
16 Q. Okay. And in the course of your work, doctor,
17 how many articles do you review on a weekly basis,
18 just on average?
19 A. Well depends on what the week's like. It would
20 probably be on average 10 or so articles. But if
21 we're writing a grant, I may be reviewing 200. Or if
22 I'm writing a paper, it may be 50. So it just
23 depends on what's happening in the week. So 10 to 15
24 articles a week would be an average.
25 Q. And in each one of those articles are there a

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REDIRECT EXAMINATION - DR. RICHARD HURT

1948

1 number of citations at the end?
2 A. Yes, there are.
3 Q. So if you wanted to know how many articles we
4 might have had to refer to in any given year, if you
5 wanted to think back ten years ago or five years ago,
6 would you have to multiply the number of articles you
7 looked at times the number of citations?
8 A. There would be --
9 You know, it depends on how big the article is.
10 There would be 30 or so citations, but some of them
11 would be repetitious, as we heard today, they won't
12 always be new. But there will be some that will be
13 different.
14 Q. Now some of the medical articles -- I don't mean
15 to be impertinent to a doctor -- but are some of them
16 well informed and some not very well informed?
17 A. Oh, there's all sizes and shapes and forms.
18 There are some that are better than others.
19 Q. Do you memorize the articles?
20 A. Gosh, no.
21 Q. Now with regard to the knowledge about a given

22 product, who is it that would have the most
23 information? Who sits at the hub of the wheel of
24 information regarding a product?

25 MR. BERNICK: Your Honor, I object, A, it's
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REDIRECT EXAMINATION - DR. RICHARD HURT

1949
1 argumentative, and B, there's no foundation for it.
2 Who is it that we're talking about? What product is
3 it we're talking about? Or what experience does the
4 witness have with the knowledge of the company that
5 makes it --

6 THE COURT: Well I don't think he mentioned
7 companies, but maybe you can rephrase your question.
8 BY MR. CIRESI:

9 Q. Let's just take a given drug company. Who knows
10 more about a given drug put out by a drug company,
11 the company itself or some doctor who may be writing
12 about it in the medical literature?

13 A. The company has to know the most about their
14 product. I mean they're responsible to a lot of
15 different people. They're responsible, first of all,
16 to the Food and Drug Administration, secondly,
17 they're responsible to me as a prescribing physician,
18 but more importantly they're responsible to the
19 consumer and they have to prove that their drug is
20 safe and effective, and they are the repository of
21 the world's information about that product, whatever
22 the product might be. And that's the responsibility
23 of a company, that's what they should be doing.

24 Q. Now if someone, an investigator --
25 And are doctors called investigators when they

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REDIRECT EXAMINATION - DR. RICHARD HURT

1950
1 look at a given drug --

2 A. Yes, they are.

3 Q. -- or a product, in this case cigarettes?

4 A. Right.

5 Q. Now if an investigator is looking at the issue
6 of smoking and health in cigarettes, would that
7 investigator have more funds to apply to that than
8 the combined cigarette industry?

9 A. No.

10 MR. BERNICK: Your Honor, this is all
11 argumentative.

12 THE COURT: I'll let the answer stand.

13 Q. Who would have more personnel -- scientists,
14 doctors, Ph.D.'s -- to devote to the investigation
15 into the issue of health of a given product, an
16 individual investigator or a company?

17 A. The company obviously does.

18 Q. Who would have more laboratories to utilize in
19 looking at that issue, an individual investigator or
20 the company who puts the product into the stream of
21 commerce?

22 A. The company does.

23 Q. Now doctor, you've talked about some medical
24 articles. I'd like to direct your attention to JAMA,
25 the Journal of the American Medical Association.

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1951

1 That's a peer-reviewed article?
2 A. That's correct.
3 Q. Is it in the first tier of articles?
4 A. Yes, it is.
5 Q. And in July of 1995 did JAMA run a series of
6 articles regarding smoking and health and industry
7 documents?
8 A. Yes, it did.
9 Q. And did you review those documents -- those
10 articles?
11 A. I did.
12 Q. And have you relied on them?
13 A. Yes.
14 Q. Do you consider them authoritative?
15 A. Absolutely.
16 MR. CIRESI: May I approach, Your Honor?
17 THE COURT: Yes.
18 (Documents handed to the witness.)
19 THE WITNESS: Thank you.
20 Q. If you could turn, first, to Exhibit 18989, --
21 A. Okay.
22 Q. -- and is that one of the articles that was in
23 JAMA in the July 19th, 1995 issue?
24 A. Yes. It's an editorial, "The Brown and
25 Williamson Documents, Where Do We Go From Here?"

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1952

1 MR. CIRESI: Your Honor, we'd offer under
2 803(18) Exhibit 18989.
3 MR. BERNICK: I don't believe, Your Honor,
4 that adequate foundation has been laid. The court is
5 familiar with the background of these articles. I
6 don't believe the witness has testified to the
7 scientific methodology, that it is a reliable or
8 authoritative methodology that was used in the
9 creation of these articles. The articles simply
10 recite company documents. The court is familiar and
11 the record has been made concerning the circumstances
12 surrounding the creation of these articles. They are
13 hearsay. They create three problems. They
14 effectively usurp the function of the jury, nor has
15 this witness established that he has looked into the
16 predicates, the facts that are recited in those
17 articles, to determine whether they have reliability
18 and accuracy based upon independent investigation of
19 all of the documents that have been produced here as
20 opposed to what he has received from counsel. So we
21 have a series of objections to the article, Your
22 Honor.
23 THE COURT: 18989 will be received into
24 evidence under 803.
25 BY MR. CIRESI:

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1953

1 Q. First of all, I'd just like to go to the title,
2 "The Brown and Williamson Documents, Where Do We Go

3 From Here?"
4 MR. BERNICK: Your Honor, I have a -- I
5 have an objection to displaying the document. This
6 is an expert witness. He's called to the stand. I
7 don't believe that under the rules it's permissible
8 simply to read from a document in order to bolster
9 the testimony of a direct -- of an expert on direct
10 examination. To be used on cross, he can refer to
11 the fact studies have been done, but I don't think
12 it's an appropriate use of a learned treatise, which
13 is, as I understand it, the basis under which this is
14 coming into evidence. So it's an inappropriate use
15 of the document that has been cited on direct
16 examination.
17 THE COURT: I'm not just sure we've just
18 had a recitation. Did you finish your question,
19 counsel?
20 MR. CIRESI: I haven't even asked the
21 question.
22 THE COURT: Okay. Why don't you ask the
23 question and we'll see what the question is.
24 MR. BERNICK: He's displaying the document.
25 That's the reason --

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1954

1 THE COURT: We've been displaying the
2 documents for five days, counsel, under 803.
3 MR. CIRESI: Thank you.
4 THE COURT: Proceed.
5 MR. CIRESI: Thank you, Your Honor.
6 BY MR. CIRESI:
7 Q. Again, the title was "The Brown and Williamson
8 Documents, Where Do We Go From Here?"
9 A. That's correct.
10 Q. If you go to column two --
11 A. Can you focus that a little bit?
12 Q. That's what I'm going to try to do.
13 Do you see that now?
14 A. I can, yes.
15 Q. "The documents show:"
16 First bullet point, "that research conducted by
17 tobacco companies into the deleterious health effects
18 of tobacco were often more advanced and sophisticated
19 than studies by the medical community." Now --
20 MR. BERNICK: I have the same objection,
21 Your Honor, and I don't know that there has been a
22 ruling on the objection. The question has now been
23 put, so I still have the same objection.
24 THE COURT: The objection is overruled.
25 MR. BERNICK: Okay. Can I have a

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1955

1 continuing objection, Your Honor, to examination --
2 THE COURT: With respect to this full
3 document?
4 MR. BERNICK: With respect to the articles.
5 I think there are a clip of articles. That's
6 correct, Your Honor.
7 THE COURT: Why don't we take one at a

8 time.
9 MR. BERNICK: Okay.
10 THE COURT: Okay.
11 BY MR. CIRESI:
12 Q. Now sir, with regard to the first bullet point,
13 was that consistent with what you found with respect
14 to your review of the Brown & Williamson documents in
15 this case?
16 A. That's correct. But it extended to all the rest
17 of them, too. I mean they were all doing the same
18 type of research. It was broad. It covered all of
19 the companies' documents that I reviewed.
20 Q. All right. So it was -- it was consistent,
21 then, with the documents you reviewed in this case
22 with respect to all of the defendants.
23 A. That's correct.
24 Q. With regard to the second bullet point, "that
25 executives at B&W knew early on that tobacco use was
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1956
1 harmful and that nicotine was addictive and debated
2 whether to make the research public," was that
3 consistent with what you found when you reviewed
4 those documents?
5 A. Yes, it was.
6 Q. Was it consistent with what you found with
7 respect to the balance of the defendants?
8 A. All of them, yes. There was evidence of that in
9 all the documents that I reviewed.
10 Q. The third bullet point, "that the industry
11 decided to conceal the truth from the public," was
12 that consistent with what you found when you reviewed
13 the Brown & Williamson documents?
14 A. Yes, it was.
15 Q. Was it consistent with what you found when you
16 reviewed the documents of the other defendants in
17 this case?
18 A. It was a common theme across all of the
19 companies.
20 Q. Let me direct your attention, then, down to the
21 bullet point that is now on the screen, "that despite
22 their knowledge to the contrary, the industry's
23 public position was, paren, and continues to be,
24 close paren, that the link between smoking and health
25 was not proven, that they were dedicated to
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1957
1 determining whether there was such a link and
2 revealing this to the public, and that nicotine was
3 not addictive.
4 "We think that these documents and the analyses
5 merit the careful attention of our readership...."
6 By the way, the readership are the doctors of
7 America?
8 A. Yes, that would be the common readership of the
9 Journal of the American Medical Association.
10 THE COURT: Excuse me, counsel. We're
11 having trouble with your microphone, if you can
12 adjust that.

13 MR. CIRESI: Can you hear now?
14 THE COURT: Where is our expert?
15 MR. CIRESI: They're both on.
16 THE COURT: Thank you.
17 BY MR. CIRESI:
18 Q. Do doctors from around the world read the
19 Journal of the American Medical Association?
20 A. Yes, they do. Yes.
21 Q. Let me start again then. "We think that these
22 documents and analyses merit the careful attention of
23 our readership because they provide massive,
24 detailed, and damning evidence of the tactics of the
25 tobacco industry. They show us how this industry has
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1958

1 managed to spread confusion by expressing,
2 manipulating, and distorting the scientific record.
3 They also make clear how the tobacco industry has
4 been able to avoid paying a penny in damages and how
5 it has remained -- managed to remain hugely
6 profitable from the sale of a substance long known by
7 scientists and physicians to be lethal. We hope that
8 publication of the articles will encourage all our
9 readers to become even more active in the campaign
10 against tobacco."

11 Now sir, in your review of the Brown &
12 Williamson documents, did you find what the Journal
13 of the American Medical Association found?

14 A. I did.

15 Q. Did you find that with respect to all of the
16 defendants?

17 A. Yes. And I guess it's --

18 If these people had seen even one-tenth of what
19 I've seen, this statements would have been even more.
20 They had a very few documents to review, and I've
21 reviewed many more than they've seen.

22 Q. Can you direct your attention over to the next
23 page of this article, 18989, and specifically that
24 portion which refers to "The Articles."

25 Quote, "These five articles provide a careful
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1959

1 analysis of the documents. They detail the sharp
2 disparities between the tobacco industry's private
3 knowledge, developed by their own research during
4 more than 30 years, and their public stance.

5 "The articles show the effect of the tobacco
6 company tactics, long suspected, has been to
7 obfuscate the conclusions of scientists, to confuse
8 the public, and to assist greatly the tobacco
9 industry in its successful efforts to influence the
10 political process in its favor. The surgeon
11 general's report of 1964 would have been far more
12 decisive in its conclusions and recommendations had
13 the evidence available to the executives of B&W been
14 available to the surgeon general's community --
15 committee. We can only speculate how many lives
16 would have been saved and how much suffering would
17 have been averted."

18 Did you find from your review of the Brown &
19 Williamson documents that that was consistent with
20 your opinions?
21 A. Absolutely.
22 Q. Did you find it was consistent with your
23 opinions with respect to the balance of this
24 industry?
25 A. It was. And I guess the one quote that I
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1960
1 remember so well is "We need to develop a strategy to
2 create doubt without denying it." It -- it seemed so
3 cynical.
4 Q. Doctor, can you turn to the next --
5 MR. BERNICK: Your Honor, I move to strike
6 that statement. It is an inappropriate statement
7 coming from an expert witness in this case. The jury
8 can decide the motives of the parties and the conduct
9 and its impact.
10 THE COURT: Well it is -- it is not
11 responsive to the question.
12 MR. BERNICK: Your Honor, will it be
13 stricken?
14 THE COURT: The last answer will be
15 stricken, yes.
16 MR. BERNICK: Okay.
17 MR. CIRESI: Talking about the last phrase,
18 Your Honor?
19 THE COURT: The very last sentence.
20 MR. CIRESI: Okay.
21 BY MR. CIRESI:
22 Q. Over on the other column, "Why Are We Publishing
23 the Articles?
24 "For many decades, the mission of the American
25 Medical Association has been to promote the science
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1961
1 and art of medicine in betterment of public health.
2 To remain silent about the B&W papers would be to
3 deny our mission. Quite simply, we are publishing
4 this research because it is the right thing to do.
5 "Analysis of these papers suggests that we would
6 have seen a very different picture of tobacco use
7 today if the group knowing the most about the dangers
8 of tobacco use, the industry, had been honest with
9 its customers. The documents and the JAMA articles
10 show us in a stark way that some of those who speak
11 for the tobacco industry dissemble, distort, and
12 deceive, despite the fact that the industry's own
13 research is consistent with the scientific
14 community's conclusion that continued use of their
15 product will endanger the lives and health of the
16 public at home and abroad. The industry continues to
17 use the same tactics: even now, it is suing the
18 government over the release of the Environmental
19 Protection Agency report that has classified
20 environmental tobacco smoke as a Group A carcinogen.
21 It is spending vast amounts of money to overturn
22 anti-smoking laws.

23 "These papers show us how little the tobacco
24 industry is to be trusted when they speak on health
25 issues and that the evidence they put before the
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1962

1 regulatory and legislative bodies at the national,
2 state and local level is highly suspect."
3 Do those statements comport with what you found
4 when you reviewed the Brown & Williamson documents?
5 A. Yes, they do.
6 Q. Do those statements comport with what you found
7 when you reviewed the documents of the other
8 defendants in this case?
9 A. It was a recurring theme throughout.
10 Q. Can you direct your attention to Exhibit 18983,
11 which is one of the articles in the JAMA July 19th,
12 1995 issue.
13 A. Okay.

14 MR. CIRESI: This is Exhibit 18983, and we
15 would offer that under 803(18), Your Honor.

16 MR. BERNICK: Your Honor, we object under
17 Rule 403. We object because the requisites of 18 --
18 803 haven't been met. We further object because, as
19 has just been read to the jury, these articles were
20 written with no scientific purpose and on the basis
21 of no scientific record but in order to advocate a
22 position that was being assumed by the American
23 Medical Association at that time for political and
24 legislative purposes. We feel that the jury in this
25 case should have the opportunity to decide the issues

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1963

1 on their own with the benefit of a complete
2 record, --
3 THE COURT: Counsel, --
4 MR. BERNICK: -- and I feel those issues
5 shouldn't be addressed through experts.
6 THE COURT: -- could you limit yourself to
7 legal objections, please.
8 MR. BERNICK: Sure. That is our legal
9 objection. And I also want to incorporate by
10 reference the record that was made in that regard
11 before Your Honor previously.

12 THE COURT: Thank you.
13 Counsel, I think you'll have to lay foundation
14 under 803.

15 BY MR. CIRESI:
16 Q. Again, this is one of the articles that was in
17 the July 19th, 1995 JAMA article?
18 A. That's correct.
19 Q. And you've read it?
20 A. Yes.
21 Q. And you rely on this article as authoritative in
22 the medical literature?
23 A. Yes.

24 MR. CIRESI: Your Honor, we'd offer 19 --
25 18983, which is a part of the JAMA July 19th, 1995

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1964

1 issue.

2 MR. BERNICK: Same objection. I'm also
3 prepared to inquire of the witness on voir dire
4 concerning this article as well as any of the rest of
5 these articles.

6 THE COURT: Court will receive 18983 under
7 803.18.

8 BY MR. CIRESI:

9 Q. First of all, for Exhibit 18983, the title is
10 "Looking Through a Keyhole at the Tobacco Industry,
11 The Brown and Williamson Documents." This is the one
12 that we've just referred to, sir?

13 A. Yes, it is.

14 Q. I'd like to direct your attention to the
15 conclusions statement.

16 "These documents provide our first look at the
17 inner workings of the tobacco industry during the
18 crucial period in which the scientific case that
19 smoking is addictive and kills smokers solidified.
20 The documents show a sophisticated legal and public
21 relations strategy to avoid liability for the
22 diseases induced by tobacco use. The documents show
23 that lawyers steered scientists away from particular
24 research avenues, which is inconsistent with the
25 company's purported disbelief in the causation and

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1965

1 addiction claims; if the company had been genuinely
2 unconvinced by the causation and addiction
3 hypotheses, then it should have have had no concern
4 that new research would provide ammunition for the
5 enemy. On the contrary, the conclusion -- the
6 documents show that B&W and B.A.T recognized for more
7 than 30 years that nicotine is addictive and that
8 tobacco smoke is, quote, biologically, end of quote,
9 active, paren, e.g., carcinogenic, close paren."

10 Is that consistent with the conclusions you drew
11 based on your review of the Brown & Williamson
12 documents?

13 A. Yes, it is.

14 Q. Is it consistent with the conclusions that you
15 drew with respect to the documents of the other
16 defendants in this case?

17 A. Absolutely.

18 MR. BERNICK: I omitted to ask for the same
19 continuing objection with regard to this article. Do
20 I have that same objection?

21 THE COURT: Yes, you have the same
22 continuing objection, counsel.

23 BY MR. CIRESI:

24 Q. I'd like to direct your attention to the next
25 page of this particular article, which is entitled

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1966

1 "NICOTINE AND ADDICTION: LOW TAR/LOW-NICOTINE
2 CIGARETTES AND THE PHENOMENON OF SMOKER
3 COMPENSATION." Do you see that there, sir?

4 A. Yes.
5 Q. And specifically to the summary portion of that
6 page.
7 A. Yes.
8 Q. I'll have to read it because we won't get it all
9 on the overhead.
10 "Summary: Smokers compensation for the lack of
11 nicotine in low tar/low-nicotine cigarettes by
12 puffing more frequently and by increasing the depth
13 or duration of smoke inhalation, by smoking more
14 cigarettes per day, and by smoking cigarettes to a
15 shorter butt length. This means that smokers of low
16 tar/low-nicotine cigarettes are exposed to more tar
17 and other harmful chemicals than would be indicated
18 by an analysis of the cigarette smoke. This
19 phenomenon, known as smoker compensation, was
20 acknowledged internally in the tobacco industry by
21 the early 1970s but was not appreciated in the
22 scientific community until the 1980s."
23 Is that consistent with what you found by your
24 review of the documents?
25 A. Yes, it is.

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1967

1 Q. Was it consistent with what you found with
2 regard to your review of the documents of other
3 defendants in this case?
4 A. Yes, it was.
5 Q. If you could now turn to the "Nicotine and
6 Addiction" article in the July 19th, 1995 JAMA issue.
7 It's Exhibit 19984.
8 A. Okay.
9 Q. I'm sorry, 18984. Thank you.
10 Is this one of the articles in the JAMA issue
11 that you read, sir?
12 A. Yes, it is.
13 Q. And do you consider this an authoritative
14 article?
15 A. Absolutely.
16 Q. Did you rely on it with respect to your review
17 of the documents and your review of materials for
18 this case?
19 A. Yes, I did.

20 MR. CIRESI: Your Honor, we'd offer Exhibit
21 19984 under -- excuse me, 18984 under 803(18).
22 MR. BERNICK: I have the same objections as
23 before, Your Honor. Additionally, there are
24 references here to privileged documents, and I'd also
25 point out to the court and further object on the

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1968
1 grounds that we just spent two days on direct
2 examination concerning nicotine and addiction, and
3 then the cross-examination --
4 THE COURT: Counsel, counsel, excuse me,
5 are you making a legal objection?
6 MR. BERNICK: Yes. I'm sorry.
7 THE COURT: Just state your legal
8 objection, please.

9 MR. BERNICK: Okay. The legal objection is
10 that we are simply reiterating what already was
11 stated on direct examination, and we'd object that
12 it's improper redirect examination, in addition to
13 all the other objections that I've stated concerning
14 these articles, both before the jury and previously.

15 THE COURT: Court will receive 18984 under
16 803(18).

17 BY MR. CIRESI:

18 Q. First of all, the title is "Nicotine and
19 Addiction, The Brown and Williamson Documents." I'd
20 like to direct your attention to the first column.
21 "OF THE THOUSANDS of chemicals in tobacco smoke,
22 nicotine may be the most important. Nicotine makes
23 tobacco addictive and largely explains why people use
24 tobacco products. The addictiveness of nicotine
25 keeps people smoking long enough and heavily enough

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1969

1 for tobacco smoke to cause illness and death."

2 Is that consistent with what you found in the
3 defendant Brown & Williamson's documents, sir?

4 A. Yes, it is.

5 Q. Is it consistent with what you found with
6 respect to the balance of these defendants?

7 A. Yes, it is.

8 Q. Can you turn to page 232 of this article,
9 "Nicotine and Addiction," in the conclusion. I'd
10 like you to direct your attention down to the portion
11 right here, "The contract work...."

12 A. Okay.

13 Q. See that in the last --

14 A. Yes, I do.

15 A. -- column?

16 "The contract work and the internal company
17 research projects on nicotine reviewed herein have
18 any been published in the scientific literature.
19 Often, the work was well ahead of its time. The
20 Battelle work in Geneva was at the cutting edge of
21 nicotine pharmacology. The work on smoker
22 compensation in the 1970s preceded the main published
23 reports from the general scientific community by
24 several years."

25 Was that consistent with the conclusions you

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1970

1 drew based on your review of the defendant Brown &
2 Williamson and B.A.T documents?

3 A. Yes, it is.

4 Q. Is it consistent with the conclusions you drew
5 based on your review of the documents of the other
6 defendants in this case?

7 A. Yes, it is.

8 Q. Doctor, in reviewing the documents in this case,
9 did you need to sign a protective order?

10 A. Yes, I did.

11 Q. Were the documents all marked "CONFIDENTIAL?"

12 A. "CONFIDENTIAL" or "SECRET."

13 MR. BERNICK: Your Honor, I object to this.

14 I don't know what relevance this has to the
15 determinations that were made in orders that were
16 issued by this court.
17 THE COURT: Sustained.
18 MR. CIRESI: Your Honor, it's preliminary
19 to a question with respect to an area that was opened
20 up by Mr. Bernick.
21 THE COURT: All right, counsel, proceed.
22 BY MR. CIRESI:
23 Q. Were you required to keep the documents locked?
24 A. Yes.
25 Q. Could you talk to --

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1971

1 MR. BERNICK: Your Honor, these are all
2 procedures that were adopted by the court. I object.
3 This is an improper line of inquiry.
4 THE COURT: All right.
5 MR. CIRESI: It is preliminary, Your Honor.
6 I have a couple questions.
7 MR. BERNICK: Well let's --
8 MR. CIRESI: It's preliminary.
9 MR. BERNICK: -- get to the question.
10 THE COURT: Counsel, counsel, please do not
11 interrupt. Be seated, please.
12 May I inquire as to what direction you're going,
13 counsel?

14 MR. CIRESI: Yes, Your Honor. Documents
15 were introduced by Mr. Bernick with regard to Mr.
16 Benowitz -- Dr. Benowitz and what Dr. Benowitz felt
17 and what Dr. Benowitz's opinions were, and I'm going
18 to that issue with regard to this information.

19 THE COURT: And I'm not sure how you're
20 getting there, but I'll give you some leeway. And
21 I'll allow you to strike if -- if it doesn't appear
22 to be appropriate.

23 BY MR. CIRESI:
24 Q. Doctor, under the terms of the protective order,
25 were you allowed to talk to Dr. Benowitz about the

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1972

1 documents of these defendants?
2 A. No, sir.

3 MR. BERNICK: Move to strike, Your Honor.
4 There has been no predicate showing the information
5 that he has seen is different from what is in the
6 open scientific literature and available to Dr.
7 Benowitz.

8 THE COURT: Counsel, do you have a legal
9 objection?

10 MR. BERNICK: So I think that the question
11 is an improper question. It suggests that somehow
12 there is a reason why the court's protective orders
13 have obstructed this witness's inquiry --

14 THE COURT: Counsel, do you have a legal
15 objection?

16 MR. BERNICK: Yes.

17 THE COURT: And would you state it, please.

18 MR. BERNICK: Rule 4 -- Rule 403.

19 THE COURT: Overruled.
20 BY MR. CIRESI:
21 Q. The documents that you reviewed, did they go
22 beyond what had been revealed in the scientific
23 literature?
24 A. Absolutely.
25 Q. Did you want to share that information, or would
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1973
1 you want to share that information with your
2 colleagues in the medical community?
3 A. Absolutely.
4 MR. BERNICK: Objection, argumentative and
5 leading.
6 THE COURT: It is argumentative.
7 Sustained.
8 BY MR. CIRESI:
9 Q. Have you been able to share that information
10 with your colleagues in the scientific community?
11 A. No, I have not.
12 Q. Do you have Exhibit GI158, which is an article
13 by Dr. Benowitz, "Pharmacological Aspects of
14 Cigarette Smoking and Addiction? It's in the
15 defendants' books.
16 A. Do you know what the number is?
17 Q. And I do not know the tab number. Mr. Bernick
18 may be able to help us with that.
19 MR. BERNICK: Volume one.
20 MR. CIRESI: Volume one, tab ten. Thank
21 you very much.
22 A. Okay.
23 Q. Turn, please, to page 1321.
24 A. Okay.
25 Q. This was an article in the New England Journal
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1974
1 of Medicine?
2 A. Yes, 1988.
3 Q. If you could go to page 1318 first.
4 A. Okay.
5 MR. BERNICK: Your Honor, can we -- we
6 would object to displaying a learned treatise to
7 bolster the witness's testimony on direct
8 examination. Don't think it's a proper use of a
9 learned treatise.
10 THE COURT: Proceed, counsel.
11 MR. CIRESI: Thank you, Your Honor.
12 BY MR. CIRESI:
13 Q. In column one, about five lines down, you see
14 where it starts "Nearly 30 percent...?"
15 A. Yes.
16 Q. "Nearly 30 percent of adult Americans smoke
17 despite, in most cases, a desire to quit and despite
18 common knowledge of the health hazards. Their
19 failure to quit smoking is attributable in large part
20 to the addictive properties of nicotine."
21 Is that consistent with what you have found in
22 your practice, doctor?
23 A. Yes, it is.

24 Q. Consistent with what you found in defendants
25 documents?

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1975

1 A. Yes.

2 Q. Can you go, please, to page 1321.

3 A. Okay.

4 Q. And specifically to the portion which is
5 entitled "Pharmacokinetics and Nicotine Metabolism,"
6 which is in the lower part of the right-hand column.
7 Do you see that?

8 A. Yes.

9 Q. "Smoking is a unique form of systemic drug
10 administration, in that nicotine enters the
11 circulation through the pulmonary rather than the
12 portal or systemic venous circulation."

13 Is that consistent with what you found in the
14 defendants' documents?

15 A. Yes, it is.

16 MR. BERNICK: Your Honor, I have two
17 objections: one, this is leading because he's
18 stating a proposition and asking the witness whether
19 he agrees, so it's a leading question; number two,
20 this is simply a reiteration of the direct
21 examination of this witness. I don't believe it's
22 proper redirect examination of the witness.

23 THE COURT: I believe it was covered on
24 cross, and I believe it is appropriate to redirect.
25 Overruled.

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1976

1 BY MR. CIRESI:

2 Q. Do you recall at the very end of your
3 cross-examination Mr. Bernick was asking you
4 questions regarding an inhaler which you said really
5 wasn't an inhaler?

6 A. Yes.

7 Q. And there was a discussion about whether or not
8 the inhaler would mimic the mechanism of inhaling
9 cigarette smoke?

10 A. Yes.

11 Q. Okay. Now with regard to this statement by Dr.
12 Benowitz, then, does this state the mechanism of
13 inhalation of cigarette smoke?

14 A. Yes.

15 Q. And in this case, are we talking about cigarette
16 smoke or inhalers?

17 A. This is cigarette smoke.

18 Q. Can you turn to the portion at the end -- or
19 excuse me, at page 1325.

20 A. Okay.

21 Q. And on the left-hand column, if you will, sir.

22 A. Okay.

23 Q. Do you see down there, the last full paragraph
24 starts with "Many features...?"

25 A. Yes.

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REDIRECT EXAMINATION - DR. RICHARD HURT

1 Q. And then if you move down that paragraph, gets
2 to the point where it says "One third to two thirds
3 of adolescents...." It's about halfway down.

4 A. Yes, I see that.

5 Q. Okay. "One third to two thirds of the
6 adolescents that smoke two or more cigarettes become
7 habitual cigarette smokers. After smoking begins,
8 cigarette consumption gradually escalates over
9 several years -- a pattern similar to those observed
10 in heroin use. Third, once a person becomes a
11 habitual smoker, it is difficult to stop. When
12 smokers try to quit, the relapse rate is high,
13 averaging 70 percent in three months."

14 Now sir, is that what you found in your clinical
15 practice?

16 A. Yes. The numbers may vary --

17 MR. BERNICK: Your Honor, I object.

18 THE COURT: Just a moment.

19 THE WITNESS: Sorry.

20 MR. BERNICK: The same objection, Your
21 Honor. A, it's leading, B, it's repetitive direct
22 examination.

23 THE COURT: Overruled. You may answer
24 that.

25 A. The numbers may vary a little bit, but that is

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REDIRECT EXAMINATION - DR. RICHARD HURT

1 the range we talk about in talking about people who
2 start smoking. And people who start smoking are
3 children, they're the ones who start.

4 Q. Now the article goes on to state, "This relapse
5 rate is similar to that observed in heroin addicts
6 and alcoholics." I just want to deal with alcohol.

7 How many people in your experience become
8 addicted to alcohol?

9 A. Alcohol users?

10 Q. Yes.

11 MR. BERNICK: Objection, exceeds the scope
12 of cross-examination.

13 THE COURT: Well I believe we got into a
14 general area of addiction that relates to other
15 products. I didn't want that pushed, I don't want
16 this pushed very far either.

17 MR. CIRESI: I'm not going to push it far,
18 Your Honor.

19 THE COURT: Okay, go ahead.

20 A. If you take all -- all people who drink, which
21 is a very large number of people, about seven percent
22 in our experience, at least in our clinic, would be
23 classified as being alcoholics. So it's a very small
24 percentage compared to the numbers of people who
25 become dependent on -- on nicotine when it's

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REDIRECT EXAMINATION - DR. RICHARD HURT

1 delivered by cigarettes.

2 Q. Okay. And how many people in your clinical
3 experience become addicted or dependent on
4 cigarettes?

5 A. The vast majority who use them regularly. And
6 the numbers here are close, but I think -- again, the
7 studies might differ in one place to the next, but a
8 smoker who smokes regularly, over 90 percent or so
9 are dependent on cigarettes.

10 Q. Mr. Bernick asked you some questions regarding
11 caffeine and whether it was a drug of dependence.

12 Does DSM IV or the World Health Organization,
13 which is referred to as WHO, W-H-O, do they classify
14 caffeine as a drug of dependence?

15 A. No.

16 MR. CIRESI: Thank you, doctor, I have no
17 further questions.

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19
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RE CROSS-EXAMINATION - DR. RICHARD HURT

1980

1 RE CROSS-EXAMINATION

2 BY MR. BERNICK:

3 Q. I take it with regard to Dr. Benowitz, there are
4 some parts of the things that Dr. Benowitz has
5 written that you're prepared to endorse and reiterate
6 on redirect examination, there are parts of what Dr.
7 Benowitz and Dr. Henningfield and Dr. Hughes and Dr.
8 Horn have to say that you're not prepared to accept;
9 is that right?

10 MR. CIRESI: Objection to the form of the
11 question. It's argumentative.

12 THE COURT: It is argumentative, counsel.

13 BY MR. BERNICK:

14 Q. Well let me ask you this, Dr. Hurt. You were
15 asked a little bit about the numbers of articles that
16 had been published -- and maybe I'll prop this up
17 just one more time -- the numbers of articles that
18 have been published over time in the medical
19 literature, and I think your answers were answers in
20 the hundreds of thousands, and they related to just
21 general publications in the medical literature; is
22 that correct?

23 A. I think that was the question.

24 Q. In point of fact, when it comes to the area of
25 tobacco smoking-and-health research, isn't it a fact

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1981

1 that in that particular area literally almost a
2 hundred thousand publications have already occurred
3 in the area of smoking and health? Isn't that
4 correct?

5 A. There's been a large number. I -- you know, to
6 quote a few years ago, it would be over 50,000
7 articles. I'm sure it's going up as time goes on.

8 Q. Well in point of fact in 1989 -- '89 -- '88,
9 we're talking about a trend that had already reached

10 57,000 publications; right?
11 A. Could have.
12 Q. Okay.
13 A. That's kind of as I said -- there are people
14 that try to keep track of these. But a large number.
15 Q. And isn't it true that in contrast to what you'd
16 have when you have a drug company that's researching
17 a new product that's going to come out in the
18 marketplace, the issue of tobacco is being researched
19 by people who have absolutely no funding relationship
20 with the tobacco industry at all; correct?
21 A. I'd say.
22 Q. Like Dr. Henningfield; true?
23 A. True what?
24 Q. He has no funding relationship with the tobacco
25 industry?

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1982

1 A. Probably not, no.
2 Q. In fact, he's been an expert witness against the
3 tobacco industry; correct?
4 A. Could be.
5 Q. Dr. Henningfield has been an expert witness
6 against the tobacco companies; has he not?
7 A. That's the one you just said I think. So
8 Henningfield has been, probably, yes.
9 Q. Okay. And you've done research that you've
10 published in the literature relating to smoking and
11 health. No tobacco company controls that research;
12 do they?
13 A. No.
14 Q. In point of fact, if you take the 57,000
15 articles that were in existence even by the end of
16 the 1980s, can you even tell us that more than five
17 or six thousand of those articles at most had some
18 funding relationship with the tobacco industry?
19 A. I don't know, honestly.
20 Q. Don't know.
21 So when it comes to the vast literature that's
22 now been mounted by independent scientists and
23 reviewed by the Surgeon General of the United States
24 and literally over a score of volumes of the Surgeon
25 General's report, are you here to tell us that

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1983

1 somehow people outside the tobacco industry still
2 don't know what tobacco's all about?
3 A. In the issue of free base pH -- free base
4 nicotine as manipulated by pH, Drs. Benowitz and
5 Henningfield will be really surprised if I ever get a
6 chance to talk to them about the internal documents.
7 They do not know about this. I couldn't ask them
8 about it, couldn't inquire. I would love to write an
9 article with them about what I've learned about your
10 industry and what it's done with pH manipulation and
11 nicotine. I would love to do that.
12 Q. And in point of fact, you told the jury on
13 cross-examination that when it comes to doing that
14 comparison in any area between what is in our

15 documents and what is in the scientific literature,
16 you haven't gone ahead to go ahead and do that
17 comparison and see whether there's something new;
18 have you?

19 A. In the article we just talked about from
20 Benowitz -- actually it was in the Brown & -- Brown &
21 Williamson articles, the main article that was cited
22 about low tar/low nicotine was written in 1980 by
23 Mike Russell, and the next article about that had to
24 do with Benowitz in '83. I mean these are -- these
25 are articles that are that recent, but the -- what

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1984

1 was inside the documents goes back 15 or 20 years
2 before that. I mean it's just --

3 And the things about pH manipulation, free base
4 nicotine, are things that -- that -- that they just
5 do not know about.

6 Q. Dr. Hurt, did I ask you on cross-examination
7 whether in fact you had taken the time when you
8 talked about what was in our documents internally,
9 the research that was reflected there and the ideas
10 about nicotine, did you take the time to go look at
11 the scientific literature and see -- and the
12 publication on the same subject statement to see if
13 they were any different, and was your answer as
14 indicated here at page 1531 of the transcript:

15 "Answer: "I did not do" --

16 MR. CIRESI: Your Honor -- excuse me,
17 counsel. Your Honor, can we have an appropriate
18 procedure with regard to asking questions? This is
19 an inappropriate use of prior deposition or a
20 deposition. I don't know what it is.

21 THE COURT: The objection is sustained.
22 It's not the proper use of prior testimony, counsel.

23 Q. Was your answer to that question, Dr. Hurt --

24 THE COURT: Counsel, did you understand my
25 ruling?

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1985

1 MR. BERNICK: I guess I'm afraid I did not.

2 THE COURT: Okay. The objection was
3 sustained. It's an improper use of prior testimony.
4 BY MR. BERNICK:

5 Q. Was your testimony in this case, Dr. Hurt, that
6 you had not in fact done that comparison between the
7 internal documents and the publications in the
8 scientific literature? Was that your testimony on
9 cross-examination last Friday?

10 MR. CIRESI: Objection to the form. He
11 still has cited him to a transcript page. It's
12 inappropriate.

13 MR. BERNICK: At page 1530.

14 THE COURT: You may answer that question.

15 Q. Was that your testimony?

16 A. I think what I said was that I didn't -- I did
17 not do a side-by-side comparison. But again, you
18 know, you have to look at what --

19 Q. I think that's an answer to the question. You

20 did not do a side-by-side comparison; did you,
21 doctor?
22 A. I think that's what I said.
23 Q. Okay. Now when it comes to the contribution --
24 MR. CIRESI: Your Honor.
25 THE COURT: Just a moment, please, counsel.
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RE CROSS-EXAMINATION - DR. RICHARD HURT

1986

1 MR. CIRESI: Your Honor, I'm going to
2 object to the last question because it is an
3 inappropriate use of prior testimony. It was not a
4 complete answer that he just gave; it's selecting out
5 portions of answers.
6 THE COURT: Okay. Well I'll allow you to
7 redirect on that --
8 MR. CIRESI: All right.
9 THE COURT: -- particular issue only.
10 BY MR. BERNICK:
11 Q. Now Dr. Hurt, when it comes to the articles that
12 you've now read and the science that you've now taken
13 a look at and explained to the jury -- let's deal
14 with the JAMA articles that you cited in talking with
15 Mr. Ciresi.
16 I think that you've told us in your examination
17 before that there are standards for the conduct of
18 scientific research; correct?
19 A. Yes.
20 Q. Okay. And those standards in part call out that
21 when scientific research is done, that's (referring
22 to a word written on the write board) something that
23 you want to avoid; true? Bias.
24 A. You want to avoid it to the extent you can avoid
25 it, sure.

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1987

1 Q. Okay. And part of avoiding bias, I think you
2 told us in this case, is making sure that when you
3 gather data, the data is not biased. Isn't that part
4 of scientific process and procedure?
5 A. Correct.
6 Q. Okay. And that when the data is analyzed, you
7 don't just present one side or one part of the data,
8 you present all of the data so it can be understood
9 fairly and completely. Is that part of the
10 scientific process in which you were trained and have
11 practiced?
12 A. You never can present all of the data, so
13 someone has to decide when they write an article what
14 to include in the article. You never can present all
15 of the data for any -- practically any research
16 project I've ever done. There's too much.
17 Q. Right.
18 A. So someone has to decide -- the investigator has
19 to decide what to include in that article.
20 Q. Okay.
21 A. And that's the way the process works.
22 Q. And it's critical in making that decision that
23 you end up with a fair and representative
24 presentation of the data; correct?

25 A. To the best of your ability.
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RECROSS-EXAMINATION - DR. RICHARD HURT
1988

1 Q. Okay. And in fact on direct examination you
2 went to pains to point out that the documents that
3 you were explaining and were pointing to you thought
4 were representative documents; correct?
5 A. Which ones?
6 Q. Well I can give you a whole series of
7 statements.
8 A. Well I mean I'm just trying to figure out which
9 ones I was talking about.
10 Q. Well I think virtually in all cases, when you
11 were shown a document by Mr. Ciresi on direct
12 examination, didn't you point out to the jury that
13 those documents were representative of what it is
14 that you had looked at? Weren't those your words?
15 A. As far as the documents were concerned?
16 Q. Yes.
17 A. Yes.
18 Q. Okay. And it's important for them to be
19 representative so that you wouldn't be talking to the
20 jury about a biased collection; correct?
21 A. Correct.
22 Q. Okay. Now in point of fact, when we get to the
23 JAMA articles that you have pointed out to the court,
24 let's talk about the input to the JAMA articles, what
25 went into them, what documents went into them. Are
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1989

1 you with me?
2 A. Uh-huh.
3 Q. In point of fact, we've already seen from the
4 JAMA articles that one of the objectives of JAMA --
5 Has JAMA taken a position on the
6 smoking-and-health issue against cigarettes; that is,
7 that cigarettes should not be a part of our culture?
8 Isn't that their position as they have stated
9 publicly?
10 A. JAMA, first of all, is the journal, and --
11 Q. Of the American Medical Association.
12 A. -- I think in the last part of that, in fact the
13 editorial speaks to that issue as far as what these
14 articles show, what the internal documents that they
15 had a chance to review show, and I'd have to go back
16 and look to see what the board of trustees from the
17 AMA actually said in the editorial. There was a
18 series of recommendations that they made in the
19 editorial, which was the last of the articles.
20 Q. Well in point of fact, what the people at JAMA
21 said in the article that was up here a few moments
22 ago was this --
23 MR. CIRESI: Excuse me, Your Honor.
24 Counsel, I believe, stated that the article said that
25 the cigarettes should be banned. If we could go to
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RECROSS-EXAMINATION - DR. RICHARD HURT
1990

1 that portion.
2 MR. BERNICK: We are going to the portion
3 that Mr. Ciresi read right here, Dr. Hurt.
4 MR. CIRESI: Well Your Honor --
5 THE COURT: Just a moment, please.
6 Counsel, do you have an objection here?
7 MR. CIRESI: I do. Counsel is testifying.
8 He states something and then he leaves it. We should
9 go to that portion of the document which states what
10 he says or we should follow correct procedure and put
11 the document up.
12 THE COURT: Okay. Can we get to that
13 portion of the document, counsel?
14 MR. BERNICK: What I asked is what the --
15 what the witness understood to be the position of the
16 American Medical Association. He didn't tell me what
17 the position was, so I'm now going to go to the
18 article and what it states its purpose is, --
19 THE COURT: All right.
20 MR. BERNICK: -- Your Honor.
21 BY MR. BERNICK:

22 Q. Isn't the stated purpose as set forth by the
23 American Medical Association itself, "We hope that
24 publication of the articles will encourage all our
25 readers to become even more active in the campaign
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RE CROSS-EXAMINATION - DR. RICHARD HURT

1991
1 against tobacco?" Isn't that the purpose of these
2 publications?
3 A. No. I think the purpose of the publications is
4 what they stated, which is to get out information to
5 their readership that has heretofore been secret,
6 that's been buried in your companies' files for
7 decades. You all have known about the addictive
8 nature of nicotine, you've known about the health
9 risk to -- to smoking, and you just forgot to tell
10 anybody else. And not only that, you went beyond
11 that by creating a public relations campaign that
12 created doubt which affects the patients that I deal
13 with because they're dependent upon this substance.
14 So no, I don't -- I think the purpose of these
15 was to get information out to the readership of the
16 journal.
17 Q. So that's not the purpose as stated by the
18 American Medical Association?
19 A. This is only one paragraph in the entire --
20 You have to go back and look at the whole -- the
21 whole series of articles, and I think we've gone
22 through that, that the purpose of this is to provide
23 the readership with information that heretofore they
24 had not seen.
25 Q. That's the purpose --

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1992
1 That's the paragraph that Mr. Ciresi had you
2 read. And you ascribed to it; did you not?
3 A. That may be true. But I'm telling you that the
4 purpose -- if you go back and read the purpose of
5 these series of articles, it goes well beyond that.

6 That's one of the recommendations that's in --
7 You need to look at all the recommendations at
8 the end of the editorial in order to understand what
9 it was that they were recommending to their
10 readership. The purpose of these articles was to get
11 information to the readership about what your company
12 knew and when it knew it. That was the purpose.

13 Q. In order to further the campaign against
14 tobacco. True or not?

15 MR. CIRESI: Excuse me, Your Honor, the
16 witness did not finish his answer. Counsel is
17 interrupting.

18 THE COURT: Okay. You did interrupt the
19 witness.

20 MR. BERNICK: Oh, I'm sorry.

21 THE COURT: Please do not do that, counsel.

22 MR. BERNICK: I'm sorry.

23 A. I don't know what the question was.

24 Q. With the ultimate purpose of furthering the
25 campaign against tobacco, that's what the American

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RECROSS-EXAMINATION - DR. RICHARD HURT

1993

1 Medical Association wants; correct?

2 A. You have to look at all of the recommendations
3 from the board of trustees, which was signed by all
4 of them in the editorial that has to do with this.
5 That is one small sentence. The recommendations are
6 very clear. There's one, two, three -- I think
7 there's about 10 or 12 of them in the last two pages
8 of the editorial. That would be the place where we'd
9 know what the board of trustees would recommend to
10 its readership.

11 Q. Okay. So that's not a recommendation?

12 A. Usually when I have a recommendation to make I
13 say "I would recommend that...." They say "We hope
14 that the publication...." That's a hope, that is not
15 necessarily a recommendation. Absolutely not. You
16 need to look at their recommendations, which there's
17 a list of them at the end of this article.

18 Q. Isn't it true that the lead author of these
19 articles is named Stanton Glantz?

20 A. He's the lead author of one of the articles.
21 There's two of them. He's not the lead author on all
22 of them.

23 Q. And isn't it true that he has gone on record
24 publicly stating that representatives of tobacco
25 companies are cockroaches?

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RECROSS-EXAMINATION - DR. RICHARD HURT

1994

1 MR. CIRESI: Well, Your Honor, if they want
2 to bring Mr. Glantz in -- this is irrelevant.

3 MR. BERNICK: It's absolutely relevant.

4 THE COURT: Counsel, counsel, just a
5 moment, please.

6 MR. BERNICK: Sure.

7 MR. CIRESI: Objection.

8 THE COURT: Do you have a objection?

9 MR. CIRESI: Relevance.

10 THE COURT: Sustained.

11 BY MR. BERNICK:
12 Q. Are you familiar with Dr. Glantz's background?
13 A. I know of him. I know of his work, yes.
14 Q. Okay.
15 A. "Background" means a lot. I don't know what you
16 mean by "background."
17 Q. Are you familiar with the public position that
18 Dr. Glantz has taken with regard to the campaign
19 against tobacco?
20 MR. CIRESI: Objection, relevance.
21 THE COURT: Sustained.
22 BY MR. BERNICK:
23 Q. Do you believe that this publication is
24 untainted by the political aspirations and views of
25 the principal authors?

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1995

1 MR. CIRESI: Objection, argumentative and
2 irrelevant.
3 THE COURT: It's argumentative, counsel.
4 BY MR. BERNICK:
5 Q. I'll put it more neutrally. Do you believe --
6 THE COURT: Please, counsel, state a proper
7 question, please.
8 MR. BERNICK: Right.
9 BY MR. BERNICK:
10 Q. Are you here representing to this jury that the
11 people who put these articles together are not
12 influenced by the biases that they've expressed
13 publicly concerning tobacco? Do you believe that and
14 are you representing that to this jury?
15 MR. CIRESI: I'm going to object to it,
16 it's irrelevant, improper question, it's
17 argumentative.
18 THE COURT: It is argumentative. I'm going
19 to allow you to answer it if you wish.
20 A. The display of these articles was in my opinion
21 as fair as it could have been for your companies. It
22 could have been a lot worse had they known all the
23 stuff that I know. This is only the tip of the
24 iceberg. The documents that I see -- have seen go
25 beyond anything that these people have seen, period.

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RE CROSS-EXAMINATION - DR. RICHARD HURT

1996

1 They tried to display it in the best light that they
2 could as far as any comparisons. They did some of
3 your comparisons as far as what was known in the
4 public literature, what was known in the scientific
5 literature and what was known in the tobacco
6 companies. So they did that, I think, to the best of
7 their ability. And I think had there been more
8 knowledge about this, had there been more documents
9 that had been available to them, this would have been
10 a lot worse.
11 MR. BERNICK: Your Honor, can I ask to have
12 the question read back? I don't believe that that
13 was responsive.
14 THE COURT: Okay. It was responsive to the
15 question.

16 MR. BERNICK: Okay.
17 THE COURT: Overruled.
18 BY MR. BERNICK:
19 Q. Lawyers were also involved in writing these
20 articles; correct?
21 A. I think there was a lawyer on --
22 I'd have to go back and look at the authorship.
23 There was an LLB. If that's a lawyer, that would be
24 a lawyer, yes.
25 Q. And there were lawyers involved who were
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RECROSS-EXAMINATION - DR. RICHARD HURT
1997
1 gathered and assembled these documents for Dr.
2 Glantz; true?
3 A. Could have been. But you know, the reason that
4 they had lawyers to interpret these articles was
5 because a lot of the information was in there about
6 lawyers and the lawyers' control of research
7 internally and externally. This is all by lawyers
8 from the companies as well as independent lawyers
9 like at Shook, Hardy & Bacon. Their names are in
10 there. You need lawyers, just like any doctors to
11 interpret medical stuff, you need lawyers to
12 interpret lawyer stuff. That's why I assume that the
13 lawyers were present as far as authors on these
14 papers.
15 Q. But you don't know.
16 A. I can look at them and the lawyers that were
17 there. I -- I don't know how many there were on each
18 one of those papers, but there were lawyers available
19 in the papers, yes. They -- they participated.
20 Q. Well a lawyer also appears on the paper on
21 "Nicotine and Addiction;" correct?
22 A. Correct. I think there was some question in
23 that paper about some of the other aspects of the
24 documents themselves.
25 Q. John Slade, the lead author of that article, has
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RECROSS-EXAMINATION - DR. RICHARD HURT
1998
1 he or has he not been an outspoken critic for years
2 and years and years against tobacco?
3 MR. CIRESI: Objection, Your Honor, it's
4 irrelevant. This whole line of questioning is
5 irrelevant.
6 MR. BERNICK: Your Honor --
7 THE COURT: Sustained.
8 BY MR. BERNICK:
9 Q. Do you believe that the scientific process, Dr.
10 Hurt, should include input from people who are
11 lawyers and have motives as representatives of
12 litigants? Do you believe that?
13 MR. CIRESI: Same objection.
14 THE COURT: Okay. It's argumentative,
15 counsel.
16 MR. BERNICK: I'm trying to ask --
17 THE COURT: It's argumentative, counsel.
18 BY MR. BERNICK:
19 Q. Do you believe it's an appropriate part of
20 scientific methodology to have lawyers who are

21 representing litigants in related litigation
22 participate in scientific authorship?
23 MR. CIRESI: Objection, Your Honor.
24 Counsel's testifying, making up facts.
25 THE COURT: Okay.
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RE CROSS-EXAMINATION - DR. RICHARD HURT

1999

1 MR. BERNICK: I've not made up facts.
2 THE COURT: The objection is sustained.
3 Counsel, move on, then, to an appropriate area
4 of inquiry.
5 MR. BERNICK: Okay.
6 BY MR. BERNICK:
7 Q. Let's talk about the documents that went into
8 the JAMA articles. Is it true, Dr. Hurt, that these
9 documents were stolen by a person who later used them
10 to make threats against Brown & Williamson?
11 MR. CIRESI: Your Honor, I'm going to
12 object to the characterization and the irrelevancy of
13 the comments of counsel as totally inappropriate.
14 THE COURT: Sustained.
15 BY MR. BERNICK:
16 Q. Is it --
17 Do you know where these documents came from, Dr.
18 Hurt?
19 MR. CIRESI: Objection, irrelevant.
20 THE COURT: The objection is sustained.
21 Q. Can you represent to this jury that these
22 documents came from an unbiased source?
23 MR. CIRESI: Objection, irrelevant to the
24 line of questioning. I would ask that the court
25 admonish counsel. This has been three or four times
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2000

1 now.
2 THE COURT: Okay.
3 MR. BERNICK: Your Honor, we're trying --
4 THE COURT: Counsel, the objection is
5 sustained. Now if you want to move into a area
6 that's appropriate, otherwise I'll consider your
7 recross complete.
8 MR. BERNICK: Okay.
9 BY MR. BERNICK:
10 Q. When you went ahead and looked --
11 Let me take a look at some of the documents that
12 were referred to in these articles. Let's take some
13 of the documents that you spoke about in the course
14 of your redirect examination. Was this the page that
15 you looked at on "Smoking and Addiction?"
16 A. I think that is, yes.
17 Q. Okay. And I'm going to try to pull this apart a
18 little bit. Let's deal with compensation. Just take
19 the one that you talked about in your redirect
20 examination.
21 A. I can't read that on the copy of it.
22 Q. Okay. I'll tell you what, I'll give you the
23 nice original that Mr. Ciresi was good enough --
24 A. Here, I've got -- I've got some down here.
25 Q. Is that all right?

2001

1 A. Which one is it?
2 Q. That's at page 220. You see it says there --
3 MR. CIRESI: May we have the exhibit
4 number, Your Honor, so that the record is clear? I
5 believe it's 18890 -- 18983. I'm sorry, counsel.
6 It's actually 1898 -- actually 18983, that's right.
7 BY MR. BERNICK:
8 Q. Okay. This is a section that deals with low
9 tar/low nicotine cigarettes and the phenomenon of
10 smoker compensation. You've spoken about smoker
11 compensation; correct?
12 A. Correct.
13 Q. And it says here, "This phenomenon, known as
14 smoker compensation, was acknowledged internally in
15 the tobacco industry by the early 1970s but was not
16 appreciated in the scientific literature -- in the
17 scientific community until the 1980s." Do you see
18 that?
19 A. Yes, I see that.
20 Q. Now we have seen in this courtroom compensation
21 studies that were published in the 19 -- from -- in
22 the public -- in the scientific literature in 1970 by
23 Dr. Ashton; correct?
24 A. Well I think we went over that article, but
25 there were no nicotine levels in that article at all,

2002

1 and unless you have nicotine levels, you don't know
2 if they --
3 That was a puff test, and so if there's no
4 nicotine levels in the article, then you can't prove
5 compensation. It really has to do with how much
6 nicotine gets into the bloodstream.
7 Q. You told this jury on cross-examination that the
8 Ashton article was a compensation article; correct?
9 THE COURT: Counsel, your -- rephrase your
10 question. You're becoming argumentative.
11 Q. Did you or did you not tell the jury in
12 cross-examination --
13 THE COURT: Counsel, --
14 MR. BERNICK: I'm sorry.
15 THE COURT: -- I just -- I just directed
16 you on that. Just ask your question, please.
17 BY MR. BERNICK:
18 Q. Has your testimony in this case been, Dr. Hurt,
19 that the Ashton article in 1970 was about
20 compensation? "Yes" or "no."
21 A. I think what I said was just what I said again.
22 If you don't have nicotine levels in the study -- I
23 think we talked about that as being puff volume, and
24 I remember the discussion about that with you. Just
25 because a person puffs on it differently does not

2003

1 necessarily mean you get the nicotine levels into the

2 bloodstream. That article was absent of nicotine
3 levels in the blood; they didn't measure it.
4 Q. Didn't Russell discuss compensation in 1973 and
5 1976 in published literature?
6 A. You know, I -- it's been a long couple of days
7 here. I do not know the articles that you're
8 speaking of. If you've got them, I'd be glad to look
9 at them.
10 Q. Let me be very, very simple about it. When you
11 saw this statement in the JAMA article that
12 "compensation was not appreciated in the scientific
13 community until the 1980s," did you accept that
14 statement, or did you go back to see whether or not
15 it was true?
16 A. I think I told you earlier that the '83 Benowitz
17 article, as far as low tar/low nicotine cigarettes
18 and compensation, is really the anchor, and in these
19 articles they cite the Russell article from 1980,
20 that's another anchor, but those are the two main --
21 that's what they're referring to here. There may
22 have been other things mentioned like the Ashton
23 article that you mentioned, but there were no
24 nicotine levels in that article.
25 Q. My question is very simple, Dr. Hurt: Did you
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2004

1 go back and take a look at the literature to see
2 whether the statement made in the JAMA article was
3 true. "Yes" or "no?"
4 MR. CIRESI: Objection, repetitious, asked
5 and answered.
6 THE COURT: It's been asked and answered, I
7 believe, counsel.
8 Q. Do you know for a fact that the compensation
9 references that appear in the company documents in
10 the 1970s are --
11 A. I can't tell what you're pointing at. Maybe you
12 can point at the little projector out there. You're
13 pointing at a screen and it's out of my view.
14 Q. Here it is right here.
15 A. Okay.
16 Q. Do you know that the compensation references
17 that appear in the internal documents in the 1970s
18 are anything more than a repetition of the
19 compensation articles that were then appearing in the
20 scientific literature?
21 A. I think that, from my recollection of the
22 internal documents that I've reviewed beyond these,
23 there was talk about compensation that goes back to
24 the early 1960s.
25 Q. Let's just focus on the ones that are in the
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2005

1 article.
2 A. I can't see over here. You'll have to point on
3 that one over there.
4 Q. Right there, Dr. Hurt. Let's talk about the
5 ones that are in the JAMA article that you testified
6 to on the redirect examination. Do you know that

7 those documents refer to anything other than what was
8 in the scientific literature at the time that they
9 were written?
10 A. Which ones are you pointing to?
11 Q. The 1974 one that's highlighted.
12 A. I would have to go back and look.
13 Q. Did you do, with respect to any of the other
14 internal company documents that are mentioned in
15 JAMA, did you take any of those documents and go back
16 and see if they were anything other than what was in
17 the literature at the time? Regardless of whether
18 JAMA did or not, did you do it?
19 A. I did not do it in a systematic way, no.
20 Q. Okay. If we get to, for example -- I'll give
21 you another one. You testified about this reference
22 here -- this is now on page 232 -- remember, you
23 testified about the contract work that was done at
24 Battelle in Geneva at the cutting edge of
25 pharmacology? Remember that?

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2006

1 A. Yes.
2 Q. Did you go back and take a look and see what the
3 internal documents said about how that data was
4 evaluated by outside pharmacologists such as Dr.
5 Armitage? Did you go back and do that?
6 A. Did I do that?
7 Q. Yes.
8 A. No.
9 Q. Okay. Did you go back and determine what was in
10 the scientific literature on nicotine pharmacology in
11 those precise areas covered by Battelle? Did you do
12 that?
13 A. No. If you're pointing to the -- the Battelle
14 work in Geneva, did I go back and look at other
15 articles? No, I did not.
16 Q. Again, do you know that what was in the Battelle
17 work in Geneva was any different from what had been
18 published by Marrin or by Burns or by other
19 researchers in pharmacology at the time? Do you
20 know, "yes" or "no"?
21 A. The Battelle work, there was a lot of work, just
22 as this sentence says, that was at the cutting edge
23 of nicotine pharmacology. There probably are other
24 documents from Battelle that I haven't seen. I've
25 only seen a sample of the total number of documents.

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2007

1 Q. Okay. And with respect to the ones that you've
2 seen, did you go back and take a look at the
3 literature at the time, the publications by Marrin,
4 the publications by Burns, to see if they were any
5 different from what was in the literature at the
6 time?
7 A. No, I did not.
8 Q. Okay. And from that point of view, when it
9 comes to JAMA, JAMA doesn't tell you what was in the
10 literature at the time in pharmacology; does it?
11 A. Not at -- not according to this one, no.

12 Q. Now when you came to this case, you told us that
13 you got documents from the plaintiffs' lawyers; true?
14 A. I did, yes.
15 Q. Okay. They were your source of documents in
16 this case?
17 A. Yes.
18 Q. Okay. When it came to the Battelle research as
19 an example, did you ask the plaintiffs' lawyers in
20 this case not only to give you documents that related
21 to the documents that you've told us about, did you
22 ask them to give you documents that related to the
23 Battelle research so you could see the full picture
24 of what had taken place with regard to the Battelle
25 research?

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2008

1 A. I asked for documents to do with nicotine
2 addiction, low tar/low nicotine cigarettes, with pH
3 manipulation, and with -- with the things related to
4 addiction. And there would be many times during the
5 process if I found something I wanted to pull more
6 documents about, I'd say, "Look, I don't know what
7 this means, maybe there's another project over here.
8 Are there documents about that?"

9 Did it deal specifically with the Battelle
10 project? I don't know. I may have done some more of
11 that, but I do not -- I couldn't tell you. There was
12 thousands of pages of documents.

13 The recurring theme, though, was that your
14 companies knew these things decades before the rest
15 of us. That's what came through loud and clear. And
16 these people would be shocked to learn the things
17 that I've learned.

18 MR. BERNICK: Your Honor -- or actually I
19 have -- it would be --

20 Q. Dr. Hurt, let me ask you this. Fair is fair.
21 You say you asked for documents that related to the
22 subject matter. Do you know that you have seen all
23 of the documents that are internal documents that
24 relate to the Battelle research? Do you know that
25 you've seen them all?

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RE CROSS-EXAMINATION - DR. RICHARD HURT

2009

1 A. No. I mean there -- there are thousands of
2 pages of documents that I have reviewed. There are
3 many, many more.

4 Q. Do you know that you've seen the internal
5 documents that relate to compensation and low
6 delivery cigarettes? Do you know that you've seen
7 them all?

8 A. Seen all of them?

9 Q. Yes.

10 A. Probably not.

11 Q. Do you know that you've seen all of the
12 documents that relate to what the companies thought
13 internally about addiction? Do you know that you've
14 seen them all?

15 A. No, but I've seen enough. They knew it and they
16 didn't tell us.

17 Q. My question --
18 MR. BERNICK: I'm sorry, Your Honor, that's
19 not responsive. My question is whether he knows
20 whether he's seen them all.
21 THE COURT: Okay. Try to respond to the
22 question.
23 THE WITNESS: Okay.
24 Q. Do you know that you've seen all of the
25 documents that are internal documents on any of the
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2010

1 subjects that you've testified to?
2 A. No, but I have seen a large sample.
3 Q. Sure. In fact, your source -- your sole source
4 of information in this case, your sole source of
5 information in this case is what you've received from
6 counsel who are representing the plaintiff in this
7 case; true?
8 A. As far as internal documents are concerned?
9 Q. Yes.
10 A. I've reviewed these documents which were
11 published in the scientific literature that have to
12 do with your company. Those were not furnished to me
13 by anyone except the Journal of the American Medical
14 Association. And we have some that were duplicates,
15 obviously.
16 Q. But you don't know who furnished those documents
17 and how they selected them for the journal; do you?
18 A. They were Brown & Williamson documents.
19 Q. But you don't know how they were selected and
20 who took them and why they took them; do you?
21 A. They were Brown & Williamson documents.
22 Q. Okay.
23 A. I mean you can't -- the people that make the
24 quotes in here work for Brown & Williamson. You
25 can't run away from them.

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RE CROSS-EXAMINATION - DR. RICHARD HURT

2011

1 Q. No one is running away from anything.
2 Let me ask you this --
3 THE COURT: Counsel, it is not proper for
4 you to testify. Please limit yourself to questions.
5 BY MR. BERNICK:
6 Q. Let me go back to this list of questions, Dr.
7 Hurt. Those are a bunch of -- those are a series of
8 claims and assessments, evaluations of my client and
9 other clients based upon the particular set of
10 documents that was furnished to the journal authors;
11 correct?
12 A. These are their interpretation of what the
13 documents show.
14 Q. And as a scientist, would you urge this jury to
15 reach their own determination on these same issues,
16 not just with the benefit of whatever documents JAMA
17 may have had, but with the benefit of all of the
18 documents that come before them in this trial and
19 make up their own minds about those issues? Would
20 you issue -- would you urge them to do that as a
21 scientist, Dr. Hurt?

22 MR. CIRESI: Objection to the form of the
23 question.
24 THE COURT: The objection is sustained.
25 MR. BERNICK: I have nothing further, Your
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RE-CROSS-EXAMINATION - DR. RICHARD HURT

2012

1 Honor.
2 THE COURT: Counsel, I trust you will
3 restrict yourself purely to a few simple
4 re-re-redirect questions.
5 THE COURT: I will indeed, Your Honor,
6 having in mind Your Honor's instruction right now.
7 THE COURT: Thank you.
8 THE WITNESS: Thank you, Your Honor.
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RE-REDIRECT EXAMINATION - DR. RICHARD HURT

2013

1 BY MR. CIRESI:
2 Q. Did Mr. Bernick show you any documents from
3 these defendants, any of them that refute the
4 documents that you looked at?
5 MR. BERNICK: Objection. It's conclusory
6 and it's argumentative and it's improper re-recross.
7 THE COURT: I think that's exactly the
8 question you just asked him 30 seconds ago.
9 MR. BERNICK: I don't think that it is,
10 Your Honor, but I understand Your Honor's ruled.
11 THE COURT: Yes, you should understand
12 that, counsel.
13 BY MR. CIRESI:
14 Q. Did he?
15 A. No.
16 Q. Now if you can go to the JAMA article --
17 Well before you go there, do you have in volume
18 one of the plaintiffs' documents Exhibit 11938?
19 A. Do you know which tab it's under?
20 Q. That would be in the plaintiffs' exhibits.
21 MR. CIRESI: May I approach, Your Honor?
22 THE COURT: Yes.
23 (Document handed to the witness.)
24 THE WITNESS: Thank you.
25 Q. Now that's a Battelle document?
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2014

- 1 A. Yes. That's a B.A.T document.
2 Q. And can you go to --
3 Let me go back to the title. It's a proposal
4 for further research contract with Battelle; correct?
5 A. Correct. 1962.
6 Q. And can you go to page nine of that article.
7 A. Okay.
8 Q. And right at the top does it say, "As a result
9 of these various researches we now possess a
10 knowledge of the effects of nicotine far more
11 extensive than exists in published scientific
12 literature. It is indeed so extensive and represents
13 so much new thought that it is not easy to condense
14 the materials of these several reports and working
15 papers without the risk of over-simplification?" Is
16 that what it reports?
17 A. That's what it says.
18 Q. Is this B.A.T's words, not yours?
19 A. That's correct. 1962.
20 Q. And sir, can you go to the JAMA article one more
21 time and to the editorial.
22 A. Okay.
23 Q. Do you recall counsel asking you a series of
24 questions about what the American Medical Association
25 was doing, what JAMA was doing, whether lawyers were

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2015

- 1 involved, and you kept saying but there were
2 recommendations?
3 A. Correct.
4 Q. You remember that?
5 A. I do.
6 Q. And do you remember that he mentioned something
7 about banning cigarettes or words to that effect?
8 A. Something like that.
9 Q. Can you go to the page 257 of Exhibit 18989, and
10 do you recall counsel was a few paragraphs above
11 that -- we were talking about we hope this will make
12 our members get active in the campaign against
13 tobacco?
14 A. Right.
15 Q. Something to that effect. You remember that?
16 A. I remember that, yes.
17 Q. Now down below that, is it there where the AMA
18 recommends and makes its recommendations?
19 A. That -- these are recommendations, yes.
20 Q. And I think you said there were 10 or 12; is
21 that right?
22 A. I think I said there were a lot, but I can't
23 remember how many.
24 Q. And it goes over to the next page and I believe
25 there are 14; is that correct?

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2016

- 1 A. Fourteen, yes.
2 Q. And in any one of those 14 does the AMA say ban

3 cigarettes?
4 A. I'd have to read it, but I don't think so.
5 Q. And --
6 A. In fact, "Purchase of cigarettes should be
7 strictly limited to adults, with severe penalties for
8 those who transgress," so it talks about restricting
9 usage to non-children.
10 Q. And what number is that? Number seven?
11 A. Number seven.
12 Q. "Purchase of tobacco should be strictly limited
13 to adults, with severe penalties for those who
14 transgress."
15 A. Correct.
16 Q. "Under-age use of tobacco should carry
17 consequences for the user. All tobacco advertising
18 should be eliminated, and a vigorous counter-
19 advertising campaign should be instituted."
20 So there wasn't anything in this article that
21 would suggest that the AMA or the Journal of the
22 American Medical Association wanted to ban
23 cigarettes; was there?
24 A. Not to my knowledge.
25 Q. And counsel talked about lawyers. In fact
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RE-REDIRECT EXAMINATION - DR. RICHARD HURT

2017
1 there's not a lawyer on the Advisory Board; is there,
2 sir?
3 A. This is the board of trustees for the American
4 Medical Association. This is all of them. They
5 signed it one and all.
6 Q. And they're all M.D.'s; correct?
7 A. Correct.
8 MR. CIRESI: Thank you, doctor. I have no
9 further questions.
10 THE COURT: You may step down.
11 Ladies and gentlemen, we'll be recessing at this
12 time and reconvening tomorrow morning at 9:30.
13 As you'll recall, several times in the past I
14 have mentioned that you should not discuss this case
15 with anybody, particularly your spouses when you go
16 home. Do not read the newspaper or watch television
17 or listen to the radio so that you should not obtain
18 information that you did not get in this courtroom.
19 Keep that admonition in mind, and I'll go through
20 that once in a while just to remind you that you will
21 be required to avoid that type of matter.
22 We will reconvene at 9:30 tomorrow morning.
23 THE CLERK: Court stands in recess to
24 reconvene tomorrow morning at 9:30.
25 (Court recesses.)

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